New Junior Encyclopedia

Vol 18

Atlas
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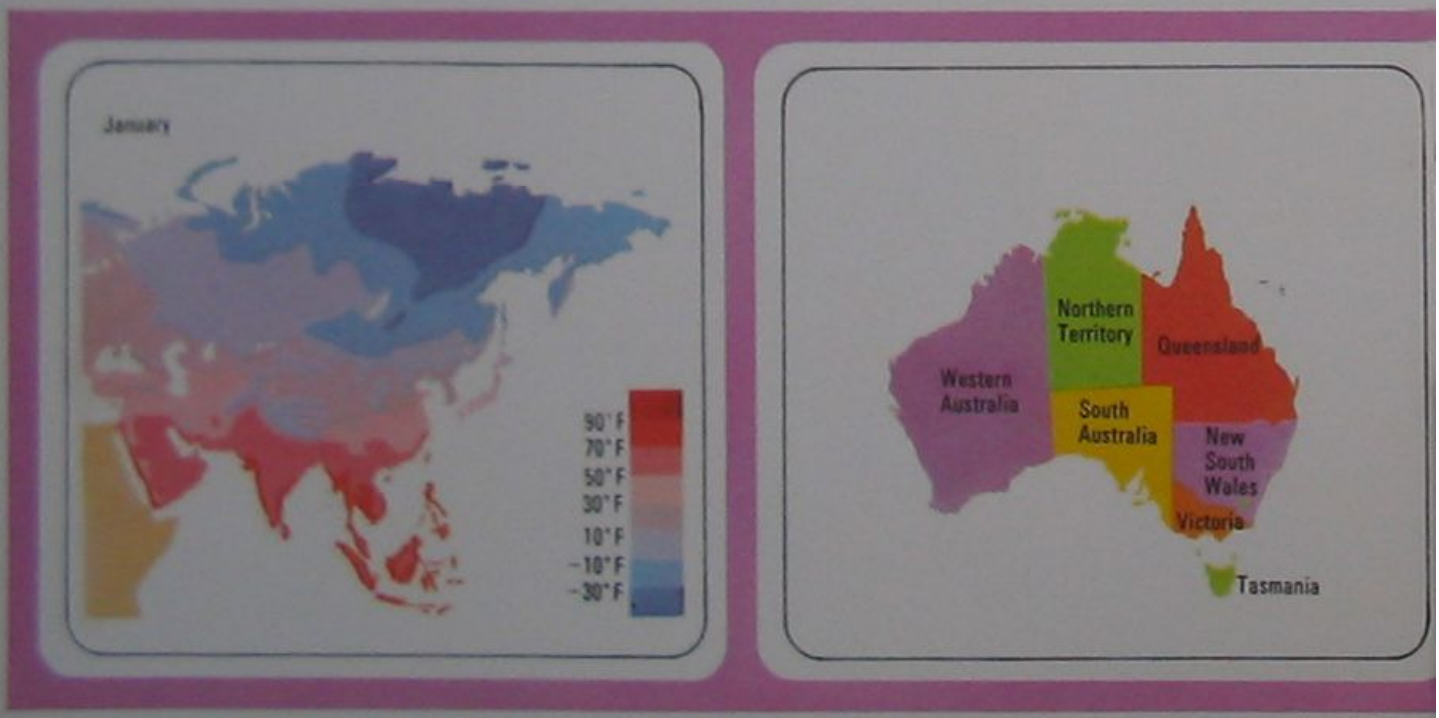

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Part of a Catalan map of the world prepared for Charles V of France in 1375. Much of it is based on Marco Polo's account of his travels.

The Commonwealth of Nations

Commonwealth of Nations came into being after World War II. It is composed of states that were once territories of the British empire. This empire began when the explorer Sir Humphrey Gilbert took Newfoundland for Elizabeth I in 1583.

Early beginnings About 400 years ago English sailors were already famous as traders, slave dealers and pirates. They regularly robbed Spanish ships carrying treasure from the Americas to Spain, and in 1588 boosted English prestige by defeating the Spanish Armada. Unlike the Spaniards and Portuguese, the English in the time of Elizabeth I were neither missionaries nor colonists. England was still poor, and when its sailors put to sea they sought quick profits. As England became richer, this pattern changed. English settlers occupied St. Kitts, Nevis, Barbados, Antigua and Montserrat in the West Indies in 1623 and 1632, and in 1655 Cromwell's forces took Jamaica from the Spaniards. The value of the West Indies was in the sugar and rum produced there.

The Virginia Company established the first permanent English colony in mainland America in 1607, and also took over Bermuda in about 1610. In 1620, the 'Pilgrim Fathers' landed from the *Mayflower* to form the colony of Massachusetts. By 1733, thirteen English colonies were established along the Atlantic coast between French Canada and Spanish Florida. During the 1800's cotton and tobacco became extremely important crops in the southernmost colonies.

In 1707, England united with Scotland to form Great Britain, and soon became the world's leading industrial nation. The main pattern of British trade was the 'triangular route', in which ships first took cheap manufactured goods to western Africa. These wares they exchanged for slaves which they landed in the West Indies and the thirteen colonies, bringing back to Britain cotton, rum, sugar and tobacco. Britain's prosperity therefore depended partly on the slave trade, until this ended in 1807.

New territories replace old colonies Between 1756 and 1783, great changes occurred in the composition of the empire. Britain defeated France and took over its territories in Canada and India (1756-1763), but the thirteen colonies won independence (by war) as the United States (1775-1783). However, the new republic finally recognized the Bahamas as British. Napoleon's defeat in 1815 enabled Britain to gain Malta, St. Lucia, Grenada, Dominica, St. Vincent, Trinidad, Tobago, present-day Guyana and Sri Lanka, the Seychelles, and the Cape of Africa.

Before American independence, Britain sent its surplus prison population to the thirteen colonies. From 1788, it sent them to Australia, where the first British penal settlement was established at Botany Bay. After war with the Maoris, the British government annexed New Zealand in 1840.

India, the heart of the empire, was controlled not by the British government but by the East India Company. The Company's power extended from Aden in Arabia (annexed in 1839) to Penang in present-day Malaysia (rented in 1786). The East India Company was the most powerful private company in history. It controlled India partly by direct rule and partly by a system of alliances with Indian princes. However, in 1857 the Indian Mutiny ended the Company's 200 years of power, and in 1858 the British government took over all its territories. In 1877, Disraeli (British prime minister) made Queen Victoria Empress of India, which by then included present-

Queen Elizabeth is queen of the United Kingdom. She is also queen of many of the Commonwealth countries. Here she accompanies her son Charles, heir to the throne, after his investiture as Prince of Wales.

day Pakistan, Sri Lanka, Bangla Desh and most of Burma. In 1878 Disraeli gained Cyprus from Turkey, and in 1879 the Maldive Islands were annexed.

The British government also took over from the East India Company the Straits Settlements (Penang, Malacca and Singapore). Some of the Malay states sought British protection from Siam (Thailand), and by 1914 all Malaya came under British control. In the 1840's Sarawak came into the possession of James Brooke – the English 'white rajah'. British control was extended to present-day Sabah and Brunei in 1888.

Greater government involvement This vast empire had grown up without any co-ordinated plan. Pirates, traders, soldiers, explorers, merchants, officials, missionaries, convicts and refugees all played a part in creating it. Increasingly, however, the British government was compelled to intervene in order to maintain it. To protect India, for example, the British army fought two wars with Afghanistan (1839-41 and 1878-80). In 1839, when the Chinese stopped the East India Company from importing opium into their country, the British government declared war on China. As a result of the war, Britain gained Hong Kong.

Before 1884, Britain had little interest in Africa apart from the Cape. Sierra Leone, however, was an exception, for Granville Sharp, an Englishman opposed to slavery, settled some freed American slaves there in 1787. Later, colonies were established on the coasts of present-day Gambia, Ghana and Nigeria. After 1884, British protectorates were established inland from these colonies. Because of the climate, western Africa was called 'the white man's grave', but in eastern Africa the high ground proved most suitable for farming by British colonists. Once again, private companies under charter from the British government pioneered the way. Kenya, Uganda, Zanzibar and northern Somalia all came under British control by 1890.

The British in southern Africa British settlers who landed in the Cape in 1820 were bitterly resented by the Boers – descendants of Dutch Protestants who first went there in 1624. In 1836, the Boers quit. They made a 'Great Trek' northwards to found the Orange Free State and the South African Republic (later renamed Transvaal). The British also founded a new colony, Natal, and in 1879-1897 they conquered the African

Members of the Commonwealth in 1973, with dates of independence, were as follows:

1	Britain	
2	Canada	1867
3	Australia	1901
4	New Zealand	1907
5	India	1947
6	Sri Lanka (Ceylon)	1948
7	Ghana	1957
8	Malaysia*	1957
9	Cyprus	1960
10	Nigeria	1960
11	Sierra Leone	1961
12	Tanzania**	1961
13	Western Samoa	1962
14	Jamaica	1962
15	Trinidad and Tobago	1962
16	Uganda	1962
17	Kenya	1963
18	Malawi	1964
19	Malta	1964
20	Zambia	1964
21	Gambia	1965
22	Singapore***	1965
23	Guyana	1966
24	Botswana	1966
25	Lesotho	1966
26	Barbados	1966
27	Nauru	1968
28	Mauritius	1968
29	Swaziland	1968
30	Tonga	1970
31	Fiji	1970
32	Bangla Desh****	1971

* Independent as Malaya, 1957; joined with Sarawak, Sabah and Singapore to form Malaysia, 1963.

** Independent as Tanganyika, 1961; joined with Zanzibar as Tanzania in 1964.

*** Part of Malaysia, 1963; broke away in 1965.

**** Independent as the eastern part of Pakistan, 1947-1971.

Right: The British Empire on which 'the sun never set' at its greatest extent. From this empire evolved today's Commonwealth of Nations shown above. The Commonwealth is a free association of many independent nations and several races of people. One of its main bases is the cultural link that stems from the use of the English language throughout the Commonwealth.

Leaders of three Commonwealth countries in 1973: Kenya's President Jomo Kenyatta (above left); India's Mrs Gandhi (above), and Australia's Prime Minister, Gough Whitlam.

Below: The visit of Edward, Prince of Wales, to India at the height of British power and influence in the world.

military state of Zululand. In 1891, both Nyasaland and Bechuanaland (now Botswana) became British protectorates. Basutoland (now Lesotho) became a British colony in 1884.

In the late 1880's, the British South Africa Company brought present-day Rhodesia under its control. This territory was named after Cecil Rhodes, who in 1890 became prime minister of Cape Colony. The Company then brought land to the north under its power, which it named Northern Rhodesia (present-day Zambia). Tension grew between the Boers, who tried to keep the British out of their territories, and the British who wanted the diamonds and gold believed to exist there. After two Boer Wars (1880-81 and 1899-1902), the two Boer Republics, with Swaziland, were annexed by Britain.

The demand for freedom Settlers who had gone to, or been born in, the almost empty lands of Canada, Australia and New Zealand had, because of the long distance from England, to fend for themselves. They therefore began to press for greater independence. To solve the problem, the British gave them a form of semi-independence called *dominion status*. Canada became a dominion in 1867, Australia in 1901, New Zealand in 1907, and South Africa (Cape Colony, Natal, Orange Free State and Transvaal) by 1910.

To speed communications with India, in 1875 Britain purchased shares in the Suez Canal. As a result, Egypt came under British occupation in 1882; by 1889 Britain and Egypt jointly conquered Sudan.

The defeat of Germany and Turkey in World War I gave Britain possession of Tanganyika, Iraq, Trans-Jordan, Palestine, and part of Cameroon. German South West Africa went to South Africa, German New Guinea to Australia, German Samoa to New Zealand, and the Pacific island of Nauru to Britain, Australia and New Zealand jointly. By 1920, the British empire embraced a quarter of the world's land area and a quarter of its peoples, including some small territories not included in this article. The continued existence of the empire depended upon three main factors: British supremacy at sea, Britain's position as an economic super-power, and the unquestioned acceptance of foreign rule by its 400 million subjects. However, all three factors were slowly disappearing.

The beginning of the end of the British empire came in Ireland. After 750 years of English rule, southern Ireland gained the equivalent of dominion status in 1922. Freedom came to Canada, Australia, New Zealand and South Africa by friendly agreement, but in Ireland it was won in bitterness that developed into hatred and eventually open war. Half a century later, the old hatreds remained. Dominion status was very inexactly defined until 1931, when it was clearly stated to be the same as complete independence. By then, several non-white countries in the empire were pressing for independence. In India, Mahatma Gandhi led 'civil disobedience' to British rule. Although the end of all empires was near, few people realised it.

From empire to Commonwealth World War II (1939-1945) so changed people's ideas that colonial status ceased to be acceptable. Britain quit Palestine and conceded independence to its Indian empire in 1947-1948; to Sudan, Ghana and Malaya in the 1950's; and to the rest of British Africa (except Rhodesia) in the 1960's. By 1970, the British West Indian territories either became independent or remained linked to Britain as *Associated States* by choice. Rhodesia's white rulers declared it independent in 1965, but Britain ruled their action illegal, and no other country recognised it. In 1973, when Britain entered the European Economic Community, only a few small British colonies remained. Most of these were progressing towards independence, including Australian Papua and New Guinea.

As the British empire faded away, so the Commonwealth of Nations took its place. Its main basis in the 1970's was the cultural link that stemmed from the use of the English language by educated people throughout the Commonwealth. Although Britain's queen was accepted as Head of the Commonwealth, most of its member states were, by 1973, republics. Most ex-British territories stayed in the Commonwealth, but some left it. These were: Burma (1948), Israel—formerly Palestine (1948), Republic of Ireland (1949), Sudan (1956), Somalia (1960), South Africa (1961), Maldives (1965), Southern Yemen (1967), and Pakistan (1971). The Arab states of Egypt, Iraq, Jordan, Libya, Kuwait, Bahrain, Qatar, United Arab Emirates, and Oman (all under British occupation in 1945) became independent countries outside the Commonwealth.

Gazetteer of the world

Aerial view of the Churchill River, Saskatchewan, Canada.

In order to make the gazetteer as comprehensive as possible, the information has been presented in note form. The following symbols should be noted: *c*, capital city; *a*, area; *p*, page of atlas.

A

Abidjan, *c* and port of Ivory Coast. Major export city for crops. *p* 1454.
Accra, *c* of Ghana, W Africa. *p* 1454.
Aconcagua, mt. in Argentina, 22,831 ft. Highest in S. America. *p* 1462.
Addis Ababa, *c* of Ethiopia, E Africa. Commercial city. Handicrafts. *p* 1455.
Adelaide, *c* of S Australia. Major export city. *p* 1470.
Aden, port in Yemen Peoples' Democratic Republic. *p* 1464.
Aegean Sea, part of Mediterranean Sea between Greece and Turkey. Has many islands. *p* 1472.
Afars and Issas, French terr. in NE Africa. *c* Djibouti; *a* 8,494 sq. mi. Once called French Somaliland. *p* 1464.
Afghanistan, landlocked monarchy in S Asia. *c* Kabul; *a* 253,861 sq. mi. Bordered by USSR, China, India, Pakistan, and Iran. Products include cotton, wool, karakul pelts. Afghanistan became fully independent by 1923. *p* 1464.
Africa, see under separate countries.
Ahmedabad, city in NW India. *p* 1465.
Alabama, S state, US. *c* Montgomery; *a* 51,609 sq. mi. Chemicals, coal, crops, fertilizers, iron. *p* 1459.
Alaska, northernmost and largest state of US. *c* Juneau; *a* 586,400 sq. mi. Fishing, forest products, furs, mining, oil. *p* 1458.
Albania, mountainous republic in SE Europe. *c* Tirana; *a* 11,100 sq. mi. Bordered by Yugoslavia, Bulgaria, Greece, and Adriatic Sea. Products include tobacco and petroleum. Won independence from Turkey in 1912. *p* 1472.
Albany, *c* of New York State, US. Shipping, printing and publishing. *p* 1459.
Alberta, province, SW Canada. *c* Edmonton; *a* 255,285 sq. mi. Cattle, cereals, coal, natural gas, petroleum. *p* 1458.
Alderney, see Channel Islands.
Alexandria, chief port of UAR. Once area of Greek-Egyptian culture. *p* 1464.
Algeria, second largest republic in Africa. *c* Algiers; *a* 919,850 sq. mi. Most Algerians are Arabs or Berbers who are Muslim in religion. Most people live in the small hilly strip between the coast and the Atlas Mts. Languages: Arabic and Berber. Bordered by Mediterranean Sea and seven countries. Products are fruit, cattle and oil. Won independence from France in 1962. *p* 1454.
Algiers, *c* and major port of Algeria. Commercial, cultural city. *p* 1454.
Alice Springs, town in Northern Territory, Australia. Transport centre. *p* 1470.
Alps, largest European mtn range. Covers parts of Austria, France, Germany, Italy, Rumania, Switzerland, Yugoslavia. *p* 1472.
Altai, Asian mtn range running across part of Mongolia-USSR border. *p* 1469.
Amazon, longest river in western hemisphere, flows 3,900 mi. across South America. *pp* 1460, 1461.
Amman, *c* of Jordan. Crops, leather and textile industries. *p* 1464.
Amsterdam, *c* and port of the Netherlands. Cultural city. Diamond polishing, petroleum refining, shipbuilding. *p* 1472.
Amur, Asian river, 2,700 miles, flows partly along China-USSR border to the Pacific. *p* 1469.
Anatolian Plateau, mountainous area covering most of Asiatic Turkey. *p* 1464.
Andes, longest mtn range in world, in S. America. Runs N to S through Venezuela, Colombia, Ecuador, Peru, Bolivia, Chile, Argentina. Many peaks over 20,000 ft. *pp* 1460, 1462.
Andorra, state in Pyrenees under control of France and Spain. *c* Andorra; *a* 191 sq. mi. Livestock, tourism, tobacco, wines. *p* 1472.
Angola, Portuguese territory in W Africa. *c* Luanda; *a* 481,352 sq. mi. Located S of Congo on Atlantic Ocean. Products include minerals, petroleum. *p* 1457.
Anguilla, W. Indian I. British colony. *a* 35 sq. mi. *p* 1459.
Ankara, *c* of Turkey. Grain and fruit market. Mohair cloth. *p* 1468.
Antarctic Circle, corresponds to the 66½°S line of latitude.
Antarctic Ocean, surrounding Antarctica, is often regarded as part of the Atlantic, Indian and Pacific Oceans. *p* 1463.
Antarctica, ice-bound continent surrounding S. Pole. *a* between 5,000,000 and 6,000,000 sq. mi. No permanent inhabitants. Several countries claim parts. *p* 1463.
Antigua, W. Indian island state in association with Britain. *c* St John's; *a* 170 sq. mi. Agriculture, cotton, rum. *p* 1459.
Antwerp, Belgian port. Gothic cathedral and Renaissance town hall. *p* 1472.
Apennines, mtn range, runs from N to S of Italy. *p* 1472.
Appalachian Mtns run along E coast of N. America through Canada and US. *p* 1459.
Arabia, vast desert peninsula in SW Asia, S of Iraq and Jordan. Mainly in Saudi Arabia. *a* about 1,185,000 sq. mi. *p* 1464.
Arabian Sea, part of Indian Ocean between Africa and India. *pp* 1464, 1465.
Aral Sea, salt lake in SW Russia. *a* 26,166 sq. mi. *p* 1468.
Arctic Circle corresponds to the 66½°N line of latitude. *pp* 1458, 1468, 1469.
Arctic Ocean surrounds the North Pole. *a* 5,440,000 sq. mi. Large frozen areas. *pp* 1458, 1468, 1469.
Argentina, second largest republic in S. America. *c* Buenos Aires; *a* 1,072,070 sq. mi. People are mostly of Spanish and Italian descent, or are *mestizos* (mixed Amerind and European). Language: Spanish. With Chile forms S part of continent. On the central plains, called the pampas, farmers produce cattle, sheep and grain, to provide three-quarters of Argentina's wealth. Won independence from Spain in 1816. *pp* 1462, 1463.
Arizona, SW state, US. *c* Phoenix; *a* 113,909 sq. mi. Agriculture, copper, gold, lead, silver, uranium. Famed for magnificent Grand Canyon. *p* 1459.
Arkansas, S state, US. *c* Little Rock; *a* 53,104 sq. mi. Cotton, rice, bauxite, coal, natural gas, petroleum. *p* 1459.
Arkansas, river in S US, 1,450 mi. long. *p* 1459.
Asia, see under separate countries.
Asunción, *c* and main port of Paraguay. Food, paper, textile industries. *p* 1461.
Athens, *c* of Greece. Cultural, business and tourist city. Site of Parthenon and similar buildings. *p* 1472.
Atlanta, *c* of Georgia, US. Cultural and trade city. Communications point. *p* 1459.
Atlantic Ocean touches Africa, Americas, and Europe. *a* 31,530,000 sq. mi. *pp* 1458, 1459, 1468, 1472.
Atlas, mtn range in NW Africa running through Morocco, Algeria and Tunisia. *p* 1454.
Auckland, city of New Zealand. *p* 1471.
Austin, *c* of Texas, US. Educational city. Bricks, furniture. *p* 1459.
Australia, Commonwealth monarchy, is the world's largest island. *c* Canberra; *a* (including Tasmania) 2,967,909 sq. mi. Almost all Australians are of European origin—mainly British. Language: English. Religions: Protestantism and Roman Catholicism. Half of Australia's people live in 6 cities. Inhabited only by aborigines until the 1600's, Australia developed into an independent British nation by 1900. Temperate SE Australia is the most, and tropical N Australia the least, developed. Because Australia was cut off from other land masses in early times it

has some animals, such as kangaroos, which are found in no other country.

Although most of Australia is desert, or semi-desert, the fertile area is bigger than many European countries. Sheep and wheat are important. Minerals include coal, gold, lead, petroleum, silver, uranium, zinc. Manufacturing industries are developing fast to supply Australia's needs. S Australia has many lakes, including Eyre, Frome, Gairdner, Torrens. Australia has 6 states. 2 mainland territories, and several overseas territories. *pp* 1470, 1471.

Austria, European republic in Alps. *c* Vienna; *a* 32,374 sq. mi. Austrians are a German-speaking people, and mainly Roman Catholic. One third of the country is forest. Chief river: Danube. Most farms are small. Main products are iron and steel, and machinery. Austria lost its great empire in defeat in 1918. *p* 1472.

B

Baffin Bay, Canada, lies W of Greenland. *p* 1458.

Baghdad, *c* of Iraq. Site of city of Arabian Nights. On Tigris river. *p* 1464.

Bahamas, W. Indian Is. British territory. *c* Nassau; *a* 4,400 sq. mi. Fish, fruit, handicrafts, salt, sponges. *p* 1459.

Bahrain, island sheikdom in Persian Gulf. *c* Manama; *a* about 231 sq. mi. Rich in petroleum. Pearl fisheries. *p* 1464.

Baku, city in SW USSR. Main port for surrounding petroleum producing area. *p* 1464.

Bali, Indonesian island. *a* 2,147 sq. mi. Famous native dancers. 30,000 temples. Indian in culture. *p* 1467.

Balkans, term used to describe peninsula containing Albania, Bulgaria, Greece, Rumania, Turkey (in Europe), Yugoslavia. *p* 1472.

Balkhash, lake in S USSR. *a* 6,680 sq. mi. *p* 1468.

Baltic Sea, N Europe. *a* 160,000 sq. mi. *p* 1472.

Baltimore, port in Maryland, US. Shipbuilding, shipping, manufacturing. *p* 1459.

Bamako, *c* of Mali, W Africa. *p* 1454.

Bangkok, *c* and leading port of Thailand. Cultural, economic city. Many tourist attractions, including temples. *p* 1467.

Bangla Desh, a republic in S Asia with a coast on the Bay of Bengal. *c* Dacca; *a* 55,638 sq. mi. It was formerly the east part of Pakistan. After civil war, it became independent in 1971 with help from India. Rivers Ganges and Brahmaputra join to form the Ganges delta in the south. Main products are rice and jute. Principal religion is Islam. *p* 1465.

Bangui, *c* of Central African Republic. Trading town linked to Congo River. *p* 1455.

Barbados, W. Indian island. Independent state. *c* Bridgetown; *a* 166 sq. mi. Cotton, fruit, rum, sugar. *p* 1459.

Barcelona, largest port in NE Spain. Food processing, textiles. *p* 1472.

Basra, major port of Iraq. *p* 1464.

Bathurst, *c* of Gambia, W Africa. *p* 1454.

Baton Rouge, *c* of Louisiana, US. Cotton, petroleum refining. *p* 1459.

Baykal, large deep freshwater lake in SE Siberia, USSR. *a* 12,150 sq. mi. Depth reaches 5,712 ft. in places. *p* 1469.

Beirut, *c* and chief seaport of Lebanon. Site of Phoenician city. *p* 1464.

Belfast, *c* of N. Ireland. *p* 1472.

Belgium, monarchy in NW Europe. *c* Brussels; *a* 11,779 sq. mi. Belgians in the north are Flemish speaking. In the south, the Walloon people speak French. Bordered by Netherlands, Germany, Luxembourg and France. Two-thirds of Belgium is fertile farmland, but manufacturing provides the main income. Chief port: Antwerp. Products include cereals, flax, handicrafts, machinery and minerals. *p* 1472.

Belgrade, *c* and port on Danube river, Yugoslavia. Food processing. *p* 1472.

Bengal, Bay of, part of N Indian Ocean between India and Burma. *a* 339,280 sq. mi. *p* 1465.

Bering Sea, N Pacific, between Alaska and USSR. *a* about 870,000 sq. mi. *p* 1469.

Berlin, former capital of all Germany. Since 1945, divided into W. (now part of W. Germany) and E. (now capital of E. Germany). *p* 1472.

Bermuda, British territory. 360 islands in W Atlantic. *a* 21 sq. mi. *p* 1459.

Bern *c* of Switzerland. Chocolate, dairy products, watches. *p* 1472.

Bhutan, independent state in E Himalaya. *c* Thimbu; *a* 18,147 sq. mi. Cloth, forestry, grains. People mainly farmers. *p* 1465.

Birmingham, city in central England. Great industrial area. *p* 1472.

Biscay, Bay of, stormy part of Atlantic W of France, N of Spain. *p* 1472.

Bismarck, *c* of North Dakota, US. *p* 1459.

Black Sea, inland sea between USSR, Turkey, Bulgaria, Rumania. *a* 170,000 sq. mi. *p* 1473.

Bloemfontein, *c* of Orange Free State, S. Africa. Court of Appeals located in city. Cattle and marketing point. *p* 1457.

Bogotá, *c* and largest city of Colombia. Cultural and social city. *p* 1460.

Bolivia, landlocked republic in S. America. *c* La Paz (actual), Sucre (official); *a* 424,163 sq. mi. People are of Amerind or European descent or are *mestizos* (mixed). Language: Spanish. Bordered by Peru, Brazil, Paraguay, Argentina, Chile. The Andes cover W Bolivia, which contains Lake Titicaca (12,500 ft.). Mainly agricultural. Several minerals extracted. Won independence from Spain by 1825. *p* 1460.

Bombay, port in W. India. Cultural city and trade point. Chemicals, grain, metals, shipbuilding. *p* 1465.

Bonn, *c* of W. Germany. Birthplace of Beethoven. Cultural city. *p* 1472.

Borneo, island divided between Brunei, Indonesia and Malaysia. *a* 288,242 sq. mi. Diamonds, petroleum, rice, rubber, teak. *p* 1467.

Bosporus, strait linking Asian and European Turkey. Between Black Sea and Sea of Marmara. *p* 1472.

Boston, *c* and port of Massachusetts, US. Many historical places. *p* 1459.

Botswana, Commonwealth republic in southern Africa. *c* Gaberones; *a* 222,000 sq. mi. Borders S. Africa. Includes Kalahari desert. Cattle and tourism. Called Bechuanaland before gaining independence in 1966. *p* 1457.

Brasilia, *c* of Brazil. Outstanding modern architecture. Interior capital since 1960, replacing Rio de Janeiro. *p* 1461.

Brazil, largest republic in S. America. *c* Brasilia; *a* 3,286,478 sq. mi. Most people are of Portuguese, the rest of Amerind, Negro or mixed descent. Language: Portuguese. Bordered by Atlantic Ocean and all S. American countries except Chile and Ecuador. The Amazon's tropical forests cover N Brazil. Most Brazilians live in the central and S plateaus. Brazil grows half the world's coffee, and has lumber, iron ore and manganese. Many resources unexploited. Brazil won independence from Portugal in 1822. *p* 1461.

Brazzaville, *c* of Congo. Commercial city. *p* 1457.

Brisbane, *c* and port of SE Queensland, Australia. Trading city. *p* 1471.

Bristol, England. Port and cultural city. *p* 1472.

British Columbia, province, SW Canada. *c* Victoria; *a* 366,255 sq. mi. Agriculture, canning, fishing, minerals. *p* 1458.

British Honduras, Brit. territory in Central America. *c* Belize; *a* 8,667 sq. mi. Agriculture, fishing, forestry. *p* 1460.

Brunei, British protected state in Borneo. *c* Brunei; *a* 2,226 sq. mi. Pepper, petroleum, rubber, timber. *p* 1467.

Brussels, *c* of Belgium. Carpets, lace, textiles. *p* 1472.

Bucharest, *c* of Rumania. Cultural and industrial city. *p* 1472.

Budapest, *c* of Hungary. Communications city on Danube. Grain, metals, textiles, wine. *p* 1472.

Buenos Aires, *c* of Argentina. Main port, business and social city. *p* 1462.

Buffalo, port in New York State, US. Aircraft, petroleum refining, textiles. *p* 1459.

Bujumbura, *c* of Burundi, E Africa. *p* 1457.

Bulgaria, republic in SE Europe (Balkans). *c* Sofia; *a* 42,729 sq. mi. People are mainly of Bulgar-Slav origins. Most people are farmers who live in small villages. Products include grain, livestock, minerals, salt, textiles and tobacco. Bulgaria united and achieved independence from Turkey in 1885. *p* 1472.

Burma, republic in SE Asia. *c* Rangoon; *a* 261,789 sq. mi. Most Burmese are farmers. Buddhism is the main religion. Chief products include grain, petroleum, teak, textiles, minerals (including precious stones). *p* 1466.

Burundi, republic in E central Africa. *c* Bujumbura; *a* 10,747 sq. mi. Bordered by Rwanda, Tanzania and Zaïre. Main product, coffee. Independent from Belgium since 1962. *p* 1457.

C

Cairo, *c* of UAR. Main port on Nile. Handicrafts, paper, textiles. Pyramids nearby, at Giza. *p* 1455.

Calcutta, chief port of NE India, in Ganges delta. Food processing, jute, mineral and textile industries. *p* 1465.

California, W state, US. *c* Sacramento; *a* 158,693 sq. mi. Fruit, fishing, lumber, minerals. Famous places include Death Valley and Hollywood. *p* 1459.

California, Gulf of, lies between California and Mexico. *p* 1459.

Cambodia, republic in SE Asia. *c* Phnom Penh; *a* 69,898 sq. mi. Most people are Buddhists. Cambodia is a tropical country. Rice, rubber and textiles are the main products. Fishing and forestry are also important industries. Buddhist temples provide tourist attraction. Also known as Khmer Republic. *p* 1467.

Cameroon, federal republic in W Africa. *c* Yaoundé; *a* 183,569 sq. mi. Bordered by Nigeria, Chad, Central African Republic, Congo, Gabon, Eq. Guinea. Products include cocoa, coffee and lumber. Independent from France since 1960. *p* 1454.

Canada, monarchy in N. America. *c* Ottawa; *a* 3,851,809 sq. mi. Languages: English, French. Main religions: Protestantism, Roman Catholicism. Canada's 10 provinces and 2 territories lie north of its 4,000-mile southern border with the US. Alaska and the Pacific lie to the W. Greenland and the Atlantic to the E. Only Russia is bigger. Due largely to its cold climate, Canada developed slowly. British and French trappers and farmers settled southern Canada from E to W during the 1800's. In the 1900's, the population trebled. Canada developed prosperous farming, fishing, forestry, mining and manufacturing industries.

The Rocky Mts rise in the W. Several huge lakes lie between the Great Lakes (shared with the US) and the Arctic Ocean NE of Alaska. To the E. Hudson Bay is partly iced up between September and May. Canada's great rivers include Mackenzie, St. Lawrence, Yukon. Each province has its own prime minister with limited powers under the federal system. *pp* 1458, 1459.

Canary Islands, N Atlantic, form two Spanish provinces. *a* 2,808 sq. mi. Agriculture. Largest island: Tenerife. *p* 1454.

Canberra, *c* of Australia in Australian Capital Territory. Cultural, educational, and science city. *p* 1471.

Cancer, Tropic of, latitude 23½°N marks the northern limit of the tropics. *pp* 1454, 1455, 1459.

Canton, port in S China. Chemicals, chinaware, machines, textiles. *p* 1466.

Cape Horn, southernmost tip of S. America. Stormy, feared by early navigators. *p* 1463.

Cape Kennedy, missile base in Florida, US. *p* 1459.

Cape of Good Hope, S. Africa. Southernmost tip of Africa. *p* 1457.

Cape Province, S. Africa. *c* Cape Town; *a* 278,465 sq. mi. Copper, diamonds, fruit, sheep, tobacco, wheat. *p* 1457.

Cape Town, port and *c* of Cape Province, S Africa. Legislative *c* of S. Africa. Food processing, fishing, wine. *p* 1457.

Capricorn, Tropic of, latitude 23½°S marks the southern limit of the tropics. *pp* 1457, 1462.

Caracas, *c* of Venezuela. Cultural and trading city. *p* 1460.

Cardiff, *c* and largest city of Wales. Important communications and industrial city. *p* 1472.

Caribbean, sea between W. Indies and mainland Americas. *a* 750,000 sq. mi. *p* 1459.

Carpathian Mtns, range in central and eastern Europe, mainly forested. *p* 1472.

Casablanca, largest city and port of Morocco. Mineral industries. *p* 1454.

Caspian Sea, world's largest inland body of water. Iran-USSR. *a* 163,800 sq. mi. *p* 1473.

Caucasus, mtn range bordering Europe and Asia, in USSR. Highest peak: Elbrus. *p* 1473.

Cayman Islands, three British islands S of Cuba. *a* 100 sq. mi. *p* 1459.

Celebes, island of Indonesia. One of the Greater Sunda islands. *p* 1467.

Central African Republic, *c* Bangui; *a* 236,294 sq. mi. Landlocked between Chad, Sudan, Congo, Zaire, Cameroon. Products include diamonds, cotton. Independent from France since 1960. *p* 1455.

Chad, landlocked desert republic in N central Africa. *c* Fort-Lamy; *a* 495,754 sq. mi. Lake Chad in W. Products include cotton, cattle. Independent from France since 1960. *pp* 1454, 1455.

Channel Islands, British islands with limited self-government off NW France. *a* 75 sq. mi. Cattle, tomatoes, tourism. Islands include Alderney, Guernsey, Jersey, Sark. *p* 1472.

Charleston *c* of West Virginia, US. Coal, lumber, petroleum. *p* 1459.

Charlottetown, *c* and port of Prince Edward Island, Canada. Fish, shipyards. *p* 1459.

Cheyenne, *c* of Wyoming, US. Transport point for livestock. *p* 1459.

Chicago, city in Illinois, US, on Lake Michigan. Grain, livestock, steel mills. Airport is among world's largest. Many colleges, universities. *p* 1459.

Chile, coastal republic in S. America. *c* Santiago; *a* 286,397 sq. mi. Chileans are mainly *mestizos* (of mixed Spanish and Amerind descent). Bordered by Peru, Bolivia, Argentina, Pacific. Andes run along border. Three-quarters of exports are minerals, including copper, iron ore, and nitrates. Won independence from Spain in 1818. *pp* 1462, 1463.

China, communist republic in E Asia. *c* Peking; *a* 3,691,502 sq. mi. Main language: Chinese. Most people are Chinese. Traditional religions, Confucianism, Taoism, Buddhism, are in decline.

China borders 11 other countries and the Pacific Ocean. China's 21 provinces are the home of its 3,500-year-old culture based upon careful farming, which developed around the Yangtze and Hwang rivers. China absorbed outlying deserts and plateaus to form its 5 outer regions of Kwangsi Chuang, Tibet, Sinkiang Uighur, Inner Mongolia and Ningsia Hui. *Loess* (wind-swept yellow fertile dust) covers much of NE China and gives the Yellow Sea its name. Since 1949, China has attempted a 'great leap forward' to catch up with the

West industrially. *pp* 1465, 1466.

Christchurch, *c* of Canterbury, New Zealand. Cultural and industrial city. *p* 1471.

Chungking, city in SW China. Wartime capital. Chemicals, metals, textiles. *p* 1466.

Cincinnati, city in Ohio, US. Meat packing, machines, plastics. *p* 1459.

Cleveland, port in Ohio, US. Factories and steel mills. *p* 1459.

Colombia, republic in S. America. *c* Bogotá; *a* 439,513 sq. mi. People are mainly of Spanish descent, or are *mestizos* (mixed European and Amerind). Language: Spanish. Bordered by Venezuela, Brazil, Peru, Ecuador, Pacific Ocean, Panama, Caribbean Sea. Products include coffee, petroleum and other minerals. Won independence from Spain in 1819. *p* 1460.

Colombo, *c* and main port of Sri Lanka. Coconuts, rubber and tea. *p* 1465.

Colorado, US state in Rocky Mts. *c* Denver; *a* 104,247 sq. mi. Cattle, cereals, precious metals, petroleum. *p* 1459.

Columbus, *c* of Ohio, US. Chemicals, machinery and paper goods. *p* 1459.

Comoro Islands, French territory in SE Africa. *c* Dzaoudzi; *a* 838 sq. mi. *p* 1457.

Conakry, *c* of Guinea, W Africa. Exports include bauxite and coffee. *p* 1454.

Congo, republic in equatorial Africa. *c* Brazzaville; *a* 132,047 sq. mi. Bordered by Atlantic Ocean and four other countries. Timber. Independent from France since 1960. *pp* 1456, 1457.

Congo (Zaïre), W African river, 2,718 mi. long. *pp* 1456, 1457.

Connecticut, NE state, US. *c* Hartford; *a* 5,009 sq. mi. Aircraft engines, fishing, machines, watches. Yale University founded at Branford in 1706. *p* 1459.

Copenhagen, *c* and largest port of Denmark. Dairy products, furniture. *p* 1472.

Cork, city in Republic of Ireland. Many Roman Catholic churches. *p* 1472.

Corsica, French island in Mediterranean. *c* Ajaccio; *a* 3,370 sq. mi. Sheep, wine. Birthplace of Napoleon. *p* 1472.

Costa Rica, small republic in Central America. *c* San José; *a* 19,238 sq. mi. Bordered by Nicaragua, Caribbean Sea, Panama, Pacific Ocean. Products include bananas and coffee. Independent since 1844. *p* 1460.

Crete, Greek island in Mediterranean. *a* 3,219 sq. mi. Centre of an ancient civilization. *p* 1472.

Cuba, island republic in West Indies. *c* Havana; *a* 44,218 sq. mi. Cubans are of Spanish, Amerind, Negro or mixed descent. Language: Spanish. Location about 150 mi. S of Florida. Half the land is flat. The rest is hilly with mountains in SE. Main products include minerals, sugar, tobacco. Cuba gained independence in 1898 after Spanish-American War. *p* 1459.

Curacao, Dutch island N of Venezuela. *a* 210 sq. mi. Petroleum refineries. *p* 1460.

Cyprus, island republic in Mediterranean. *c* Nicosia; *a* 3,572 sq. mi. Most Cypriots follow Greek Orthodox religion and speak Greek. Some are Turkish Muslims. Products include cereals, copper, fruit, iron ore and vegetables. Won independence from Britain in 1960. *p* 1472.

Czechoslovakia, mainly industrial republic in central Europe. *c* Prague; *a* 49,370 sq. mi. People are mainly Czech and Slovak. Danube flows through the south. Soil is fertile. Products include coal, glassware, grain and machinery. Won independence, mainly from Austria, in 1918. *p* 1472.

D

Dahomey, republic in W Africa. *c* Porto Novo; *a* 43,483 sq. mi. Bordered by Togo, Upper Volta, Nigeria, Gulf of Guinea. Nuts and palm oil. Independent from France since 1960. *p* 1454.

Dakar, *c* of Senegal, W Africa. *p* 1454.

Dallas, city in N Texas, US. Aircraft, cotton, machinery industries. *p* 1459.

Damascus, *c* of Syria. Among oldest cities in world. Famous for metalwork, mosaics and silk brocades. *p* 1464.

Danube, second longest river in Europe, flows 1,740 mi. through 8 countries. *p* 1472.

Dardanelles, strait linking Sea of Marmara to Aegean. Commands entrance to Black Sea/Mediterranean. 40 mi. long. *p* 1472.

Dar es Salaam, *c* of Tanzania, E Africa. Petroleum refining, textiles. *p* 1457.

Darwin, *c* and port of Northern Territory, Australia. Communications point. *p* 1470.

Dead Sea, lake between Israel and Jordan. *a* 400 sq. mi. (25% salt). *p* 1464.

Delaware, NE state, US. *c* Dover; *a* 2,057 sq. mi. Chemicals, dairy foods, fishing, furs, lumber, minerals. *p* 1459.

Delhi, *c* of India. City is in two parts, old and new. Jewellery, metal and textile industries. *p* 1465.

Denmark, monarchy in NW Europe. *c* Copenhagen; *a* 16,619 sq. mi. Language: Danish. Denmark consists of a peninsula and many islands. Bordered by Germany and the Baltic and North Seas. Dairy farming, fishing, furniture and shipbuilding are the main industries. Danish Vikings explored and settled in many parts of the western world by 1000 A.D. *p* 1472.

Denver, *c* of Colorado, US. Skiing resort. *p* 1459.

Des Moines, *c* of Iowa, midwest US. Manufacturing city. *p* 1459.

Detroit, port in Michigan, US. World-famed for automobiles. *p* 1459.

Djakarta, *c* of Indonesia in NW Java. Textiles, mixed industries. *p* 1467.

Dominica, W. Indian island state in association with Britain. *c* Roseau; *a* 290 sq. mi. Fruit, spices, sugar. *p* 1459.

Dominican Republic, state in W. Indies. *c* Santo Domingo; *a* 18,704 sq. mi. Covers two-thirds of island of Hispaniola. Cocoa, coffee and sugar are grown. Under Spanish, French, Haitian and US rule until final independence achieved in 1924. *p* 1459.

Dublin, *c* of Republic of Ireland. Administrative, communications and cultural city. Clothing, electrical goods, glass, stout. *p* 1472.

Durban, city in South Africa. Agriculture, textiles. *p* 1457.

E

Ecuador, equatorial republic in S. America. *c* Quito; *a* 104,506 sq. mi. Bordered by Colombia, Peru and Pacific Ocean. Half the people are Amerind, the rest are of Spanish or *mestizos* (mixed) descent. Exports include bananas and balsa. Independent since 1830. *p* 1460.

Edinburgh, *c* of Scotland. Annual festival attracts many visitors. *p* 1472.

Edmonton, *c* and port of Alberta, Canada. Farming, petroleum. *p* 1458.

Egypt (UAR), republic in N Africa. *c* Cairo; *a* 386,101 sq. mi. People are Muslims of Arab, Negro, or mixed descent. Bordered by Mediterranean Sea, Israel, Red Sea, Sudan and Libya. 95% of Egyptians live on the 3% of fertile land in the Nile Valley, where many grow cotton or grain, the staple produce. Egypt attracts many tourists. Independent since 1922. *p* 1455.

El Salvador, smallest republic in Central America. *c* San Salvador; *a* 8,260 sq. mi. Bordered by Guatemala, Honduras, Pacific Ocean. Products include coffee and cotton. Gained final independence in 1841. *p* 1459.

English Channel, narrow sea between England and France, about 300 miles long. *p* 1472.

Equatorial Guinea, republic in W Africa. *c* Santa Isabel; *a* 10,832 sq.

mi. Bordered by Cameroon and Gabon. Coffee grown. Called Rio Muni and Fernando Poo until independence from Spain in 1968. *p* 1454.

Erie, one of Gt Lakes, N. America. *a* 9,940 sq. mi. Ports include Buffalo, Cleveland, Port Colbourne, Toledo. *p* 1459.

Ethiopia, monarchy in NE Africa. *c* Addis Ababa; *a* 457,267 sq. mi. (including Eritrea). Most Ethiopians are Coptic Christians, some are Muslims. Language: Amharic. Bordered by Red Sea, Afars and Issas, Somalia, Kenya, Sudan. Products are coffee, livestock and minerals. Ancient empire. *p* 1455.

Ethiopian Highlands, mtn range covering whole of north and west Ethiopia. *p* 1455.

Euphrates, W Asian river flowing 2,235 mi. through Armenia, Turkey, Syria, Iraq. *p* 1464.

Europe, see under separate countries.

Everest, mt. in China-Nepal. Highest in the world, 29,028 ft. *p* 1465.

The White Cliffs of Dover on the south-east coast of England. Dover owes its importance to the nearness of the French coast which is only 21 miles away across the English Channel.

F

Falkland Is, British territory in S. Atlantic. *c* Port Stanley; *a* 4,700 sq. mi. *p* 1463.

Faroe Islands, in N Atlantic. Danish territory with limited self government. *a* 540 sq. mi. *p* 1472.

Finland, republic in N Europe. *c* Helsinki; *a* 130,120 sq. mi. Official languages: Finnish and Swedish. Finland is bordered by Sweden, Norway, USSR, Baltic Sea, Gulf of Bothnia. Finland has many lakes and forests. Timber is the chief source of income, cereals and potatoes the main crops. Won independence from Russia in 1917. *p* 1472.

Florida, SE state, US. *c* Tallahassee; *a* 58,450 sq. mi. Fish, fruit, lumber, minerals, sponges, sugar. Contains Cape Kennedy and Miami Beach. *p* 1459.

Fort-Lamy, *c* of Chad, Africa. *p* 1454.

France, republic in W Europe. *c* Paris; *a* 211,207 sq. mi. (including Corsica). Language: French. Main religion: Roman Catholicism. Bordered by Belgium, Luxembourg, Germany, Switzerland, Italy, Mediterranean Sea, Spain, Bay of Biscay, English Channel. N and W France is mainly flat. S and E lie the Massif Central and the Vosges, Jura Alps and Pyrenees. Rivers include the Garonne, Loire, Rhône and Seine. Mild climate, fertile soil and natural resources make France a leading farming and industrial country. Products include automobiles, coal, iron, wheat, wine. An ancient country. France held a world empire until the 1960's. Since 1957, increasingly integrated in EEC and other European organizations. *p* 1472.

Fredericton, *c* of New Brunswick, Canada. Leather goods, lumbering. *p* 1459.

Freetown, *c* and main port, Sierra Leone. Commercial city. *p* 1454.

French Guiana, territory in NE S. America. *c* Cayenne; *a* 35,135 sq. mi. *p* 1461.

G

Gabon, equatorial republic in W Africa. *c* Libreville; *a* 103,089 sq. mi. Bordered by Cameroon, Equatorial Guinea, Congo and the Atlantic. Timber and manganese. Independent from France since 1960. *p* 1454.

Galapagos Islands, in E Pacific, belong to Ecuador. *a* 3,000 sq. mi. Named after Spanish word for turtles. *p* 1460.

Galway, port in Republic of Ireland.

Gambia, small republic in W Africa. *c* Bathurst; *a* 4,003 sq. mi. Bordered by Senegal, Atlantic. Ground-nuts, rice. Independent from Britain since 1965. *p* 1454.

Ganges, the longest river in India, flows 1,450 miles south-east from its source in the Himalayas of N India to its huge delta in Bangla Desh. It is a sacred river to the Hindus. *p* 1465.

Georgia, SE state, US. *c* Atlanta; *a* 58,876 sq. mi. Corn, cotton, fruit, lumber, peanuts, steel, tobacco. *p* 1459.

Germany, East, republic in central Europe. *c* Berlin; *a* 41,815 sq. mi. (excluding Berlin). Language: German. Bordered by Poland, Czechoslovakia, W Germany, Baltic Sea. The Elbe river divides E. Germany from W. The Oder and Neisse rivers form the border with Poland. Since its separation from W. Germany in 1945, E. Germany has become an important industrial country. *p* 1472.

Germany, West, republic in central Europe. *c* Bonn; *a* 96,144 sq. mi. (excluding Berlin). Language: German. Religions: Protestantism and Roman Catholicism. W. Germany borders E. Germany and eight other nations, and has short coastlines on the Baltic and North seas. Flat in the N, Germany becomes increasingly mountainous to the S. Mts include Alps, Harz, Schwarzwald (Black Forest). Rivers include Danube, Elbe, Ems, Rhine, Weser. All are important commercially. Defeated and occupied after 1945, W. Germany is now one of the greatest industrial nations and a member of EEC. *p* 1472.

Ghana, republic in W Africa. *c* Accra; *a* 92,100 sq. mi. People are mainly of the Adansi, Akwamu and Ga tribes. Main language: English. Bordered by Ivory Coast, Upper Volta, Togo, Gulf of Guinea. Lake Volta lies to E. Products include cocoa, diamonds, gold and lumber. Called Gold Coast until independence from Britain in 1957. *p* 1454.

Gibraltar, British territory bordering S Spain. *a* 2·25 sq. mi. *p* 1472.

Glasgow, Scotland's greatest industrial city. Engineering, printing and shipbuilding. *p* 1472.

Gobi, Chinese-Mongolian desert, bleak, cold and stony. *a* 500,000 sq. mi. *p* 1469.

Gorki, city in SW USSR. *p* 1468.

Grand Canyon, Arizona, US. 217 mi. long; 1 mi. deep. Many layers of rock are exposed where worn away by Colorado river. *p* 1459.

Great Australian Bight, bay south of Australia. *p* 1470.

Great Barrier Reef, chain of islands and coral reefs off north-east Australia. 1,200 miles long. *pp* 1470, 1471.

Great Dividing Range, Australian mountain system running 1,500 miles parallel to east and south-east coast. *pp* 1470, 1471.

Greater Antilles, island group in W. Indies. Includes Cuba, Jamaica, Hispaniola, Puerto Rico and smaller islands. *p* 1459.

Great Lakes, in N. America: Erie, Huron, Michigan, Ontario, Superior. *a* 94,700 sq. mi. Largest group of freshwater lakes in world. *p* 1459.

Greece, monarchy in SE Europe. *c* Athens; *a* 50,944 sq. mi. Greeks call themselves *Hellenes* after the goddess Helen. Greece is composed of a peninsula and 437 islands. More than half the people are farmers. Main products include fruit, livestock, olive oil, wine, lignite, marble. Ancient Greek civilization flourished 2,500 years ago. Many modern technical terms are based on old Greek words. *p* 1472.

Greenland, largest island in N. America. Danish territory. *c* Godthaab; *a* 840,001 sq. mi. Cryolite mined. *p* 1458.

Grenada, W. Indian island state in association with Britain. *c* St George's; *a* 133 sq. mi. Spices and other foods. *p* 1460.

Guadalajara, city in W Mexico. Agriculture, pottery. Rail and road hub. *p* 1459.

Guadeloupe, French island in W. Indies. *c* Basse-Terre; *a* 687 sq. mi.; *p* 355,000. Bananas, cocoa, coffee, rum, sugar cane. *p* 1460.

Guatemala, mountainous republic in Central America. *c* Guatemala; *a* 42,042 sq. mi. Half the people are descended from Maya Indians. Chief products include coffee, cotton. Final independence gained in 1839. *p* 1459.

Guatemala City, *c* of Guatemala, Central America. Coffee, minerals. *p* 1459.

Guernsey, see Channel Islands.

Guinea, republic in W Africa. *c* Conakry; *a* 94,926 sq. mi. Bordered by Portuguese Guinea, Senegal, Mali, Ivory Coast, Liberia, Sierra Leone, Atlantic. Products include bananas, bauxite and other minerals. Independence gained from France in 1958. *p* 1454.

Guyana, Commonwealth republic in S. America. *c* Georgetown; *a* 83,000 sq. mi. Bordered by Venezuela, Surinam, Brazil. Products include bauxite, rice, sugar. Called British Guiana until independence in 1966. *p* 1461.

H

Hainan, island off S China. *a* 13,000 sq. mi. *p* 1467.

Haiti, mountainous republic in W. Indies. *c* Port-au-Prince; *a* 10,714 sq. mi. Shares island of Hispaniola with Dominican Republic. Language: French. Main products: coffee, sugar. Won independence from France in 1804. *p* 1459.

Halifax, *c* of Nova Scotia, Canada. Foundries, petroleum refining. Atlantic port. *p* 1459.

Hanoi, *c* of North Vietnam, SE Asia. Metals, rice and textiles. Once capital of French Indo-China. *p* 1467.

Havana, *c* and major port of Cuba. Business and cultural city. *p* 1459.

Hebrides, group of British islands off W coast of Scotland. Sheep and weaving. *p* 1472.

Helsinki, *c* and port of Finland. Machinery, textile and wood industries. *p* 1472.

Himalaya, highest mtn range in world, bordering Pakistan, Kashmir, India, Tibet, Nepal, Sikkim, Bhutan. Highest peak: Everest. *p* 1465.

Hindu Kush, mtn range in central Asia, bordering Afghanistan and Pakistan. W of Himalaya range. *pp* 1464, 1465.

Hispaniola, W. Indian island divided into Haiti and Dominican Republic. *a* 29,530 sq. mi. *p* 1459.

Hobart, *c* and port of Tasmania, Australia. Fruit, minerals. *p* 1471.

Hokkaido, most northerly island of Japan. *p* 1466.

Honduras, mountainous republic in Central America. *c* Tegucigalpa; *a* 43,277 sq. mi. Coastline on both Caribbean Sea and Pacific. Bananas, coffee and sugar. Gained independence in 1838. *p* 1459.

Hong Kong, British territory bordering China. *c* Victoria; *a* 398 sq. mi. Market for Chinese goods. Many industries. Includes mainland territory, Hong Kong and 235 other islands. *p* 1466.

Honshu, largest island of Japan. *a* 88,000 sq. mi. *p* 1466.

Houston, port in S Texas, US. Chemicals, machinery, petroleum refining. *p* 1459.

Hudson Bay, inland sea in E Canada. Empties into Atlantic. *a* about 470,000 sq. mi. *p* 1458.

Hudson, river flowing 350 mi. through NE US. Early trade route for settlers. *p* 1459.

Hungary, republic in central Europe. *c* Budapest; *a* 35,919 sq. mi. Hungarians are descended mainly from Magyar and German peoples. Language: Magyar. Danube passes through Budapest. Carpathian mts lie in the north. Manufacturing provides the chief income. Products include cereals, lignite, peppers, sugar beet. Magyars, nomads from Asia, settled in Hungary from the 800's AD. *p* 1472.

Huron, one of Gt Lakes, N. America. *a* 23,010 sq. mi. Ports include Bay City, Cheboygan, Collingwood, Midland. *p* 1459.

Hwang Ho, Chinese river 2,700 miles long. In English, called Yellow river. *p* 1466.

Hyderabad, city in W India. *p* 1465.

The Palazzo (palace) Pretorio in Arezzo, near Florence, Italy. Italy is world-famous for its magnificent architecture and fine works of art.

I

Iceland, island republic in N Atlantic. *c* Reykjavik; *a* 39,768 sq. mi. Most Icelanders live in Reykjavik. Iceland has over 200 volcanoes. Fishing and fish canning are the chief industries. *p* 1472.

Idaho, NW state, US. *c* Boise; *a* 83,557 sq. mi. Dairy products, livestock, lumber, minerals. *p* 1459.

Illinois, midwest state, US. *c* Springfield; *a* 56,400 sq. mi. Dairy products, livestock. Chicago, in north, is main market and transport hub. *p* 1459.

India, republic in S Asia. *c* Delhi; *a* 1,262,274 sq. mi. Main languages include Hindi, English and 13 important local languages. Religions include Hinduism, Islam, Christianity, Sikhism, Buddhism, Jainism. Most people live in India's half-million villages. From the Himalayan mts in N India, the Brahmaputra and Ganges rivers flow S.

Among the world's poorest countries, India possesses much fertile land and many minerals. Often short on food, India is slowly developing great industries. Each of its 17 states has limited self government. India ended nearly 200 years of British rule in 1947. *p* 1465.

Indian Ocean touches Africa, Asia and Australia. *a* 28,350,000 sq. mi. *pp* 1457, 1464, 1465.

Indiana, midwest state, US. *c* Indianapolis; *a* 36,291 sq. mi. Farming and manufactured goods. *p* 1459.

Indianapolis, *c* of Indiana, US. Famous for automobile races. *p* 1459.

Indonesia, island republic in SE Asia, N. of Australia. *c* Djakarta; *a* 735,269 sq. mi. Main islands: Bali, Borneo, Celebes, Java, Sumatra. Also includes W. Irian, in New Guinea. Most people are Muslims. Language: Indonesian. Minerals, spices and tea. *p* 1467.

Indus, Asian river flowing 1,700 mi. from Tibet through Pakistan into Arabian Sea. *p* 1465.

Inner Mongolia, autonomous region of N China. *c* Huhehot; *a* 230,000 sq. mi. *p* 1469.

Iowa, midwest state, US. *c* Des Moines; *a* 56,290 sq. mi. Automobiles, cereals, machinery, meat packing. *p* 1459.

Iran, monarchy in SW Asia. *c* Tehran; *a* 636,294 sq. mi. Iranians speak Persian and most are Muslims. Iran lies between Caspian and Arabian seas. Iran is a plateau surrounded by Central, Elburz and Zagros mts. Products include carpets, dates, petroleum, tobacco. Iran was once called Persia. Ruins of ancient Persepolis lie in SW Iran. *p* 1464.

Iraq, republic in SW Asia. *c* Baghdad; *a* 173,260 sq. mi. Most Iraqis speak Arabic. Most are Muslims. Main rivers: Tigris, Euphrates. Chief products include cotton, dates, petroleum. Once called Mesopotamia, it was the site of several ancient civilizations. *p* 1464.

Ireland, Republic of, covers most of the island in NE Atlantic. *c* Dublin; *a* 27,135 sq. mi. Most Irish are Roman Catholic. Languages: English and Gaelic. Ireland has many lakes and rivers. Farms cover two-thirds of the fertile soil. Exports include butter, livestock and beer. Won independence in 1921. *p* 1472.

Irish Sea, lies between Britain and Ireland. *p* 1472.

Islamabad, *c* of Pakistan (replaced Karachi). Began to be built near Rawalpindi in 1961. *p* 1465.

Israel, republic in W Asia. *c* Jerusalem; *a* 7,992 sq. mi. Most Israelis are Jews, who speak Hebrew but migrated from other countries. Bordered by four Arab states and the Mediterranean. Products include chemicals, citrus fruit, grains, olives, salt. State came into being in 1948. *p* 1464.

Istanbul, chief port of Turkey, on Bosporus. Commercial city and transport hub. Old Byzantine city, also old capital of Turkey. *p* 1464.

Italy, mountainous republic in S Europe. *c* Rome; *a* 116,303 sq. mi. (including Sardinia, Sicily). Lan-

Carnival time in Jamaica, one of the beautiful islands of the West Indies. Jamaica's Indian name Xaymaca means 'island of fountains'.

guage: Italian. Religion: Roman Catholicism. The Alps form most of Italy's borders with France, Switzerland, Austria, Yugoslavia. The Apennines form a 'backbone' N to S, where Italy lies between the Tyrrhenian and Adriatic seas. The Po river flows through Italy's fertile N plain, where Milan, Turin and other industrial cities lie. Florence, on the Arno river, is a great cultural city. Rome, on the Tiber river, was the centre of the Roman empire. Italy won unity and independence mainly from Austria between 1860 and 1871. *p* 1472.

Ivory Coast, republic in W Africa. *c* Abidjan; *a* 124,503 sq. mi. On Gulf of Guinea, bordered by five countries and Atlantic. Products include coffee, cocoa, timber. Independent from France since 1960. *p* 1454.

J

Jackson, *c* of Mississippi, US. Named after Andrew Jackson. *p* 1459.

Jamaica, island, Commonwealth monarchy in W. Indies. *c* Kingston; *a* 4,411 sq. mi. People are mostly of Negro descent. Located 90 mi. S of Cuba. Products include bananas, bauxite, sugar. Became independent from Britain in 1962. *p* 1459.

Japan, island monarchy in E Asia. *c* Tokyo; *a* 142,726 sq. mi. People are almost entirely Japanese, except for 15,000 Ainu on Hokkaido. Language: Japanese. Main religions: Shinto and Buddhism. Japan lies in N Pacific Ocean, separated from mainland Asia by Sea of Japan. Its four islands, (N to S) Hokkaido, Honshu, Shikoku and Kyushu, form a mountain chain broken only by sea. Volcanic eruptions and earthquakes are common. Japan has no long rivers but many swift streams fed by heavy falls of rain and snow.

Isolated and feudal until 1868, Japan then developed fast. It built a great empire but lost it in World War II. By 1970, Japan's gross national product ranked third after US and Russia. *p* 1466.

Japan, Sea of, part of Pacific Ocean between Korea, USSR and Japan. *p* 1466.

Java, Indonesian island. *a* 48,842 sq. mi. Volcanoes have made island fertile. *p* 1467.

Jersey, see Channel Islands.

Jerusalem, *c* of Israel, holy city for Christians, Jews and Muslims, was divided between Israel and Jordan until 1967. *p* 1464.

Jidda, port in Saudi Arabia. *p* 1464.

Johannesburg, largest city in S. Africa. Rail, commercial and industrial city for gold fields. Machinery. *p* 1457.

Jordan, Arab monarchy in SW Asia. *c* Amman; *a* 37,301 sq. mi. Most people are Muslims who speak Arabic. Chief river, Jordan. Products include chemicals, grains, fruit, livestock and wool. Became independent in 1948, after union of Trans-Jordan with part of Palestine. *p* 1464.

K

K2 (Mt Godwin-Austen), Kashmir, 28,250 ft. *p* 1465.

Kabul, *c* of Afghanistan. Cultural, economic and political city. *p* 1465.

Kalahari Desert, southwestern Africa. *a* about 20,000 sq. mi. *p* 1457.

Kampala, *c* of Uganda, E Africa. *p* 1456.

Kanpur, city in N India. *p* 1465.

Kansas, midwest state, US. *c* Topeka; *a* 82,264 sq. mi. Aircraft, cattle, metals, processed foods, wheat. *p* 1459.

Karachi, chief port and former capital of Pakistan. Crop processing, handicrafts, engineering and metal works. *p* 1464.

Kashmir, border region of India and Pakistan divided between both countries. *p* 1465.

Katmandu, *c* of Nepal, S Asia. *p* 1465.

Kentucky, E central state, US. *c* Frankfort; *a* 40,395 sq. mi. Cattle, coal, maize, tobacco, whiskey. Famous for thoroughbred horses and Derby. *p* 1459.

Kenya, Commonwealth republic in E Africa. *c* Nairobi; *a* 224,960 sq. mi.

Bordered by Ethiopia, Somalia, Indian Ocean, Tanzania, Uganda, Sudan. Products include coffee, hides and tea. Won independence from Britain in 1963. *p* 1456.

Kenya, Mt, extinct volcano, central Kenya. 17,058 ft. *p* 1456.

Kharkov, city in SW USSR. *p* 1468.

Khartoum, *c* of Sudan, NE Africa. Ivory, gum, ostrich feathers. *p* 1456.

Khyber Pass, in Himalaya, connects Pakistan and Afghanistan. 33 mi. long. *p* 1465.

Kiev, city in SW USSR. *c* of Ukraine. Important industrially. *p* 1468.

Kilimanjaro, highest mt. in Africa, 19,390 ft. *p* 1457.

Kingston, *c* and port of Jamaica. Food processing. Resort. *p* 1459.

Kinshasa, *c* and largest city of Zaïre Republic. *p* 1457.

Kobe, port in S Honshu, Japan. Shipbuilding, sugar refining, textiles. *p* 1466.

Korea (North), communist republic in E Asia. *c* Pyongyang; *a* 46,540 sq. mi. Language: Korean. The land is mountainous and rich in minerals. Products include rice, cotton, iron ore, tungsten and wheat. An ancient country, Korea regained independence as two countries (N and S) by 1949. *p* 1466.

Korea (South), republic in E Asia. *c* Seoul; *a* 38,004 sq. mi. Language: Korean. Main religions: Buddhism, Christianity. South Korea has many bays and islands. Products include textiles, rice and barley. Korea regained independence (lost to Japan in 1910) as two countries (N. and S.) by 1949. *p* 1466.

Kosciusko, Australia's highest mt. New South Wales, 7,316 ft. *p* 1471.

Kra, Isthmus of, in Thailand, connects Malaya with Asian mainland. *p* 1467.

Kuala Lumpur, *c* of Malaysia, SE Asia. Communications point. *p* 1467.

Kunlun, Asian mtn range, mainly in Tibet. *p* 1465.

Kuwait, *c* of Kuwait. Port. *p* 1464.

Kuwait, independent state in N Arabia. *c* Kuwait City; *a* 6,178 sq. mi. Most people Arabs and Muslims. World's richest state per head of population, because Kuwait is second largest exporter of petroleum in world. Gained independence in 1961. *p* 1464.

Kuybyshev, wartime capital of USSR. Industrial city. *p* 1468.

Kyoto, city and former capital of Japan. Ancient cultural city. *p* 1466.

Kyushu, southernmost island of Japan. *p* 1466.

L

Lagos, *c* of Nigeria, W Africa. Exports crops and leather. Port. *p* 1454.

Lahore, city in Pakistan. Food processing, handicrafts, machinery. Cultural and religious city. *p* 1465.

Laos, monarchy in SE Asia. *c* Vientiane; *a* 91,429 sq. mi. Language: Lao. Bordered by China, Vietnam, Cambodia, Thailand and Burma. Products include cattle, cotton, rice, sugar and tin. Independent from France since 1954. *p* 1467.

Las Vegas, city in Nevada, US. Famed for gambling and nightclubs. *p* 1459.

Lebanon, Mediterranean republic in SW Asia. *c* Beirut; *a* 4,015 sq. mi. Most Lebanese are Christians or Muslims who speak Arabic. Products include fruit, metal goods, nuts, textiles. Lebanon gained independence from France in 1946. In ancient times it was the site of Phoenicia. *p* 1464.

Leeds, city in Yorkshire, England. Clothing and furniture industries. *p* 1472.

Leeward Is, in W. Indies, include Anguilla, Antigua, Guadeloupe, Montserrat, Nevis, St Kitts, Virgin Is. *a* 1,324 sq. mi. Foods, textiles, tobacco. *p* 1459.

Leningrad, port on Baltic Sea, USSR. Chemicals, engineering, machines, textiles. Old capital of Russia. Once called St Petersburg, also Petrograd. *p* 1468.

Lesotho, Commonwealth monarchy in southern Africa. *c* Maseru; *a* 11,716 sq. mi. Entirely surrounded by Republic of S. Africa, where 40% of its men work. Independent since 1966. Formerly called Basutoland. *p* 1457.

Lesser Antilles, island group in W. Indies. Includes Barbados, Leeward and Windward Is, Trinidad and Tobago, and other islands. *p* 1459.

Liberia, Negro republic in W Africa. *c* Monrovia; *a* 43,000 sq. mi. Founded by Negroes freed from slavery in US in 1820's. Bordered by Sierra Leone, Guinea, Ivory Coast, Atlantic. Large proportion of world's shipping flies Liberian flag. Iron ore, rubber. Became fully independent state in 1847. *p* 1454.

Libreville, *c* of Gabon, W Africa. *p* 1456.

Libya, republic in N Africa. *c* Tripoli and Benghazi; *a* 679,360 sq. mi. Bordered by Mediterranean Sea, Egypt, Sudan, Chad, Niger, Algeria, Tunisia. Products include petroleum and fruit. Gained independence in 1952. *pp* 1454, 1455.

Lima, *c* and largest city of Peru. Business and cultural city. *p* 1462.

Limerick, port in Republic of Ireland. Settled by Danes in 800's A.D. *p* 1472.

Lisbon, *c* of Portugal. Commercial port, cultural and industrial city. *p* 1472.

Little Rock, *c* of Arkansas, US) Cotton, livestock, petroleum. *p* 1459.

Liverpool, city in Lancashire, England. England's second greatest port. *p* 1472.

Logan, highest mt. in Canada. *p* 1458.

Lomé, *c* of Togo, W Africa. *p* 1454.

London, port and *c* of Britain. *a* 720 sq. mi. Administrative, cultural, fashion, industrial, social metropolis. One of world's chief financial cities. Rich in history. *p* 1472.

Los Angeles, port in S California, US. Cultural and social area. Aircraft, chemicals, filming, manufacturing. *p* 1459.

Louisiana, S state, US. *c* Baton Rouge; *a* 48,523 sq. mi. Cotton, lumber, minerals, petroleum, rice, sugar, tobacco. Named after Louis XIV of France. *p* 1459.

Lusaka, *c* of Zambia, Africa. *p* 1457.

Luxembourg, independent duchy in NE Europe. *c* Luxembourg; *a* 998 sq. mi. People are of mixed descent. Bordered by Belgium, Germany and France. Iron and steel industries are the chief sources of income. Luxembourg became completely independent by 1890. *p* 1472.

Luxembourg, *c* of Luxembourg. Engineering, metal and paper industries. *p* 1472.

M

Macao, Portuguese colony on southern coast of China. *a* 6 sq. mi. Fishing. *p* 1466.

Mackenzie, Canada's longest river, flowing 2,635 miles through Northwest Territories *p* 1458.

McKinley, mt. in S Alaska, 20,320 ft. Highest peak in North America. *p* 1458.

Madagascar, island republic off SE Africa coast. *c* Tananarive; *a* 230,035 sq. mi. Agriculture main occupation. Also called Malagasy Republic. *p* 1457.

Madeira, group of Portuguese islands in Atlantic. *c* Funchal; *a* 308 sq. mi. *p* 1454.

Madras, port in SE India. Leather, mineral and textile industries. *p* 1465.

Madrid, *c* of Spain. Communications point. Museums include Prado, Royal Armoury. *p* 1472.

Maine, NE state, US. *c* Augusta; *a* 33,215 sq. mi. Paper and lumber. Leather, processed foods, woollens. *p* 1459.

Malagasy Republic, see Madagascar.

Malawi, landlocked republic in E Africa, alongside Lake Malawi. *c* Zomba (prospective *c* Lilongwe); *a* 46,066 sq. mi. Maize and tea. Gained independence from Britain in 1964. *p* 1457.

Malaya, W part of Malaysia. *a*

50,700 sq. mi. Most people are Malay or Chinese. Main city Kuala Lumpur. *p* 1467.

Malaysia, tropical Commonwealth country in SE Asia composed of Malaya, Sarawak and Sabah. *c* Kuala Lumpur; *a* 128,654 sq. mi. Most people are Malay, Chinese, or Indian. Products include rubber, tin, palm oil, pineapples. United as an independent state in 1963. *p* 1467.

Mali, landlocked republic in W Africa. *c* Bamako; *a* 463,949 sq. mi. Lies between Senegal and Niger. Millet, livestock and rubber. Called French Sudan until independence from France in 1960. *p* 1454.

Malta, island Commonwealth country in Mediterranean. *c* Valetta; *a* 122 sq. mi. People speak Maltese and English. Cereals and fruit grown. Tourist resort. Completely independent from UK by 1964. *p* 1472.

Man, Isle of, British island in Irish Sea with limited self government. *c* Douglas. *a* 227 sq. mi. Farming, tourism. *p* 1472.

Managua, *c* of Nicaragua, Central America. Crops, precious metals. Partly destroyed by earthquake, 1972. *p* 1459.

Manchester, city in Lancashire, England. Metal products, textiles. *p* 1472.

Manchuria, old name for NE part of China now divided into Heilungkiang, Kirin, Liaoning provinces. *p* 1466.

Manila, port in SW Luzon, Philippines. Former capital, commercial and cultural city. Food processing, textiles. *p* 1467.

Manitoba, province, central Canada. *c* Winnipeg; *a* 251,000 sq. mi. Furs, lumber, minerals, petroleum, wheat. *pp* 1458, 1459.

Martinique, French Is. in W. Indies. *c* Fort-de-France; *a* 425 sq. mi. Rum is chief product. *p* 1459.

Maryland, E state, US. *c* Annapolis; *a* 9,891 sq. mi. Coal, crops, metals, salt. Largest city: Baltimore. *p* 1459.

Massachusetts, NE state, US. *c* Boston; *a* 7,826 sq. mi. Small farms, fishing, leather, machinery, paper. Harvard University at Cambridge. *p* 1459.

Mato Grosso, plateau in W Brazil. Rich in diamonds and gold. *p* 1461.

Mauritania, republic in NW Africa. *c* Nouakchott; *a* 419,230 sq. mi. Borders Senegal. Agriculture, copper and iron. Gained independence from France in 1960. *p* 1454.

Mecca, holy city in W Saudi Arabia. Forbidden to non-Muslims. *p* 1464.

Medina, holy city in Saudi Arabia. *p* 1464.

Mediterranean, sea dividing Africa and Europe. *a* 1,145,000 sq. mi. *p* 1472.

Mekong, river flowing 2,600 mi. through Tibet, China, Burma-Thailand border, Laos, Cambodia, S. Vietnam into South China Sea. *p* 1467.

Melbourne, *c* and chief port of Victoria, Australia. Aircraft, engineering, flour and textile industries. *p* 1470.

Memphis, city in Tennessee, US. Cotton, lumber, country and western music. *p* 1459.

Mexico, mountainous republic in N America. *c* Mexico City. *a* 761,602 sq. mi. Mexicans are mostly *mestizos* (of mixed European and Amerind descent). Language: Spanish. Bordered by US, Gulf of Mexico, British Honduras, Guatemala, and Pacific Ocean. Sierra Madre mts cover two thirds of Mexico. Several active volcanoes. Coffee, maize, silver and tourism. Independence won from Spain in 1821. *p* 1459.

Mexico City, *c* of Mexico. Once Aztec *c* of Tenochtitlan. Largest cultural, industrial city. Spanish colonial architecture. *p* 1459.

Mexico, Gulf of, W part of Atlantic between Mexico and US. *a* 615,000 sq. mi. *p* 1459.

Michigan, midwest state, US. *c* Lansing; *a* 58,216 sq. mi. Automobiles, chemicals, furniture, metals, processed foods. *p* 1459.

Michigan, one of Gt. Lakes, N. America. *a* 22,400 sq. mi. Ports include Chicago, Gary, Michigan City, Milwaukee. *p* 1459.

Milwaukee, city and port in Wisconsin, US. Brewing, meat-packing. *p* 1459.

The cathedral in Mexico City (left) stands together with the National Palace in a square called Zocalo. These buildings were constructed in the 16th century on the site of Aztec temples and palaces.

Minneapolis and St Paul (twin cities), Minnesota, US, near Great Lakes. Manufacturing industries. *p* 1459.

Minnesota, midwest state, US. *c* St Paul; *a* 84,068 sq. mi. Agriculture, iron ore, livestock, metals and paper. Lakes and forests attract many tourists. *p* 1459.

Mississippi, S state, US. *c* Jackson; *a* 47,716 sq. mi. Cotton, livestock, lumber, petroleum, pecan nuts. *p* 1459.

Mississippi, second longest river in US, 2,350 miles. Links with Missouri river. *p* 1459.

Missouri, longest river in North America, flowing 2,714 miles through the US. *p* 1459.

Missouri, S state, US. *c* Jefferson City; *a* 69,686 sq. mi. Cattle, cereals, coal, iron, tobacco, zinc. *p* 1459.

Mogadiscio, *c* and port of Somalia, NE Africa. Fish canning, hides. *p* 1455.

Molucca (or Spice) Islands, Indonesia, *p* 1467.

Mongolia, republic in E central Asia. *c* Ulan Bator; *a* 592,665 sq. mi. *p* 1469.

Monrovia, *c* of Liberia, Africa. *p* 1454.

Mont Blanc, highest mt. in Alps, 15,771 ft. *p* 1472.

Montana, NW state, US. *c* Helena; *a* 147,138 sq. mi. Cattle, coal, copper, gold, petroleum, wheat. *p* 1459.

Montevideo, *c* of Uruguay. Business and cultural city. Major port. *p* 1462.

Montgomery, *c* of Alabama, US. Cotton, food packing, lumber. *p* 1459.

Montreal, city in Quebec, Canada. Cultural and business city. Port. Mainly French-speaking. *p* 1459.

Montserrat, British W. Indian island. *c* Plymouth; *a* about 39 sq. mi. Cotton, farming. *p* 1460.

Morocco, monarchy in N Africa. *c* Rabat; *a* about 172,413 sq. mi. People are Arabs and Berbers. Most people are Muslims. Bordered by Mediterranean Sea, Algeria, Spanish Sahara and Atlantic Ocean. Atlas Mts cover most of Morocco. Varied crops and minerals. Independent from France since 1956. *p* 1454.

Moscow, *c* of USSR. Commercial, cultural and technology city. Famous for Bolshoi Ballet, Gorki Park, the Kremlin, Red Square, St Basil's Church. *p* 1468.

Mosul, city in Iraq on Tigris. *p* 1464.

Mozambique, Portuguese territory in E Africa. *c* Lourenço Marques; *a* 302,329 sq. mi. Agriculture and trade are main occupations. *p* 1457.

Munich, city in S Germany. Cultural city. Beer, handicrafts. *p* 1472.

Murray, Australia's longest river, 2,310 mi. Hydroelectric plants and reservoirs. *p* 1470.

N

Nagoya, port on Honshu, Japan. Chemicals, porcelain, textiles. *p* 1466.

Nairobi, *c* of Kenya, E Africa. Meat packing, food processing, paper. *p* 1456.

Nanking, former *c* of China. Cultural city on Yangtze. Textiles. *p* 1466.

Naples, port in S Italy. *p* 1472.

Nashville, *c* of Tennessee, US. Industrial and cultural city. *p* 1459.

Natal, S African province. *c* Pietermaritzburg; *a* 33,580 sq. mi. Cereals, minerals, petroleum, sugar, tea. *p* 1457.

Nebraska, midwest state, US. *c* Lincoln; *a* 77,227 sq. mi. Cattle, dairy products, food processing. *p* 1459.

Nelson, river in central Canada, 1,600 mi. *p* 1458.

Nepal, monarchy in Himalayas, SE Asia. *c* Katmandu; *a* 54,362 sq. mi. Most Nepalese are Gurkhas who speak Nepali. Religion: Buddhism-Hinduism. Nepal has many forests. Most of its trade is with India. Rice, cattle and skins, timber. *p* 1465.

Netherlands, monarchy in NW Europe. *c* Amsterdam; *a* 15,785 sq. mi. People and language called Dutch. Netherlands also called Holland. Bordered by Germany, Belgium, North Sea. Land protected from sea by dykes. Main rivers: Rhine, Maas, Scheldt. Main exports: dairy products, flowers. Manufacturing and shipbuilding are important industries. Won full independence from Spain by 1648. *p* 1472.

Nevada, W state, US. *c* Carson City; *a* 110,540 sq. mi. Mining, cattle, sheep. Gambling at Las Vegas and Reno. *p* 1459.

New Brunswick, province, SE Canada. *c* Fredericton; *a* 28,354 sq. mi. Farming, fishing, forestry, mining. *p* 1459.

New Guinea, Pacific island NE of Australia, *a* 317,115 sq. mi. There are 3 political divisions: Papua; Trust Territory of New Guinea; and West Irian (Indonesia). See separate entries. *p* 1470.

New Guinea, Trust Territory of, Australian part of island. *c* Port Moresby; *a* 93,000 sq. mi. Agriculture, rubber. *p* 1470.

New Hampshire, NE state, US. *c* Concord; *a* 9,304 sq. mi. Agriculture, machinery, paper, shoes, textiles. *p* 1459.

New Jersey, NE state, US. *c* Trenton; *a* 7,836 sq. mi. Chemicals, minerals, textiles. Largest city: Newark. *p* 1459.

New Mexico, SW state, US. *c* Santa Fé; *a* 121,666 sq. mi. Copper, cotton, uranium. Largest city: Albuquerque. *p* 1459.

New Orleans, port in Louisiana, US. Cotton. Famous for jazz. *p* 1459.

New South Wales, state in SE Australia. *c* Sydney; *a* 309,433 sq. mi. Coal, crops, sheep, steel, timber. *pp* 1470, 1471.

New York, NE state, US. *c* Albany; *a* 49,576 sq. mi. Niagara Falls in W. Many educational institutes. Chief cities include Buffalo, New York City, Rochester, Schenectady, Syracuse. Agriculture, mainly fruits. N.Y. has been the leading manufacturing state since 1840. *p* 1459.

New York, largest city and port of US. Major financial, business and cultural area of US. Manhattan Island, heart of the city, contains UN building. *p* 1459.

New Zealand, monarchy, more than 1,000 miles SE of Australia. *c* Wellington; *a* 103,736 sq. mi. Most New Zealanders are of British origins, some are Maoris (Polynesians who settled NZ before the British). Main language: English. Religions: Protestantism and Roman Catholicism.

NZ is made up of North Island, South Island, and many smaller islands. Most people live in N. Island. The S. Alps cover much of S. Island. NZ has 2 active volcanoes, hot springs, lakes and waterfalls. NZ's mild climate, fertile soil and small population have enabled it to become a leading sheep and dairying country. One fifth of NZ is forest. NZ became independent of Britain in 1907. Ties with Britain are very strong, but less so than in the past. NZ is taking an increasingly important part in world affairs. *p* 1471.

Newcastle, city in Australia. *p* 1470.

Newcastle-on-Tyne, city in England. *p* 1472.

Newfoundland, province, E Canada (includes Labrador). *c* St John's; *a* 156,185 sq. mi. Fishing, forestry, minerals. Discovered by Cabot for England in 1497. *p* 1458.

Niamey, *c* of Niger, W Africa. Terminus for trans-Sahara routes. *p* 1454.

Nicaragua, largest republic of Central America. *c* Managua; *a* 57,143 sq. mi. People are of Spanish, Negro, or Amerind (mixed) descent. Language: Spanish. Lake Nicaragua is 3,060 sq. mi. Main products are cotton, gold and timber. Won independence from Spain in 1821. *p* 1459.

Nicosia, *c* of Cyprus. *p* 1472.

Niger, landlocked republic in W Africa, lying N of Nigeria. *c* Niamey; *a* about 489,190 sq. mi. Livestock, peanuts and uranium. Gained independence from France in 1960. *p* 1454.

Niger, W African river, 2,600 miles long. *p* 1454.

Nigeria, Commonwealth republic in W Africa. *c* Lagos; *a* 356,669 sq. mi. The main tribes are Hausa, Yoruba,

The Franz Josef glacier in Westland, one of the provinces of New Zealand.

Ibo and Fulani. Main language: English. Bordered by Dahomey, Niger, Chad, Cameroon and Gulf of Guinea. Nigeria occupies the lower basin of the Niger with forests in S and plains in N. Products include oil, tin, groundnuts and palm oil. Gained independence from Britain in 1960. *p* 1454.

Nile, world's longest river, flowing 4,160 mi. through NE Africa, fertilizing much of Sudan and Egypt. *p* 1455.

North America, see under separate countries.

North Carolina, E state, US. *c* Raleigh; *a* 52,712 sq. mi. Cotton, lumber, maize, peanuts, tobacco. *p* 1459.

North Dakota, N state, US. *c* Bismarck; *a* 70,665 sq. mi. Cattle, cereals, coal, grain, processed foods. *p* 1459.

North Island, New Zealand, *a* 44,281 sq. mi. Hot springs, volcanoes. *p* 1471.

North Sea, NE Atlantic between Britain and mainland N Europe. *a* 222,000 sq. mi. *p* 1472.

Northern Ireland, part of UK. *c* Belfast; *a* 5,459 sq. mi. Six NE counties of Ireland. Flax, aircraft industry. *p* 1472.

Northern Territory, Australian state. *c* Darwin; *a* 520,280 sq. mi. Cattle, copper, gold, silver, tin, uranium. Pearl fishing. *p* 1470.

Northwest Territories, Canada, are composed of Franklin, Keewatin, Mackenzie. Governed directly from Ottawa. *a* 1,304,903 sq. mi. Fishing, furs, gold and silver, petroleum. About half of the territory lies within Arctic Circle. *p* 1458.

Norway, monarchy in N Europe. *c* Oslo; *a* 125,181 sq. mi. Norwegians are descendants of Norsemen. Languages are Nynorsk and Bokmål. Norway has many islands. With Finland and Sweden it forms the Scandinavian peninsula. Fishing, forestry, manufacturing, minerals. Skiing draws many tourists. *p* 1472.

Nouakchott, *c* of Mauritania, NW Africa. Livestock and millet. *p* 1454.

Nova Scotia, province, SE Canada. *c* Halifax; *a* 21,425 sq. mi. Consists of many islands. Agriculture, coal, fishing, forestry, minerals. *p* 1459.

Novosibirsk, city in USSR. *p* 1469.

O

Ob, Asian river flowing 2,500 miles through western Siberia, USSR. *pp* 1468, 1469.

Oceania, general name for Australia, New Zealand and surrounding territories. *pp* 1470, 1471.

Ohio, midwest state, US. *c* Columbus; *a* 41,222 sq. mi. Cereals, cattle, iron and steel works, machinery, salt. Main cities: Cincinnati, Cleveland. *p* 1459.

Oklahoma, S state, US. *c* Oklahoma City; *a* 69,919 sq. mi. Cattle, cereals, cotton, lead, petroleum, zinc. *p* 1459.

Oklahoma City, *c* of Oklahoma, US. Metal, petroleum industries. *p* 1459.

Ontario, smallest of Gt Lakes, N. America. *a* 7,450 sq. mi. Ports include Hamilton, Kingstown, Ottawa, Toronto. *p* 1459.

Ontario, south central province, Canada. *c* Toronto; *a* 412,582 sq. mi. Leading agricultural and industrial province. *p* 1458.

Orange Free State, S. African province. *c* Bloemfontein; *a* 49,866 sq. mi. Drakensberg mts in NE. *p* 1457.

Oregon, NW state, US. *c* Salem; *a* 96,981 sq. mi. Crops, fruit, fishing, meat-packing, metals, lumber, uranium. *p* 1459.

Orinoco, S American river flowing 1,700 miles through Brazil, Colombia, Venezuela to Atlantic. *p* 1460.

Orkney, Scottish county consisting of 70 islands in North Sea. *a* 360 sq. mi. *p* 1472.

Osaka, chief port of Honshu, Japan. Machinery, ship-building, textiles. Has a rich cultural tradition. *p* 1466.

Oslo, *c* and port of Norway. Fish, paper and textile industries. *p* 1472.

Ottawa, *c* of Canada in SE Ontario. Cultural city. Bookbinding, food processing, printing. *p* 1459.

P

Pacific Ocean, covers third of world. *a* 64 million sq. mi. Deepest spot,

37,800 ft. *pp* 1458, 1459, 1460, 1462, 1463.

Pakistan, Islamic republic in S Asia. *c* Islamabad; *a* 310,403 sq. mi. Languages: Urdu, English. Indus river flows through Pakistan. Products include cotton, wheat. Pakistan split from India at independence in 1947 to form a separate, Muslim state. In 1971 the eastern part of Pakistan broke away to form the new state of Bangla Desh. *pp* 1464, 1465.

Panama, republic in Central America. *c* Panama; *a* 29,209 sq. mi. Bordered by Caribbean Sea, Colombia, Pacific Ocean and Costa Rica. Products include bananas, mahogany and rice. Won independence from Colombia in 1903. *p* 1460.

Panama, *c* and port of Panama. *p* 1460.

Panama Canal, 51 mi. long, links Atlantic and Pacific Oceans across Panama, Central America. *p* 1460.

Panama Canal Zone, Central America. *a* 647 sq. mi. Leased to US. *p* 1460.

Papua, Australian territory, SE New Guinea. *c* Port Moresby; *a* 90,540 sq. mi. Copra, gold, rubber, timber. *p* 1470.

Paraguay, landlocked republic in S. America. *c* Asunción; *a* 157,047 sq. mi. Languages: Spanish and Guaraní. Bordered by Bolivia, Brazil, and Argentina. Chief products: cattle, timber, maté (Paraguay tea). Won independence in 1811. *p* 1462.

Paraguay, S. American river, 1,500 mi. long. *p* 1462.

Paraná, S. American river, flows 2,450 mi. through Brazil, Paraguay, and Argentina. *p* 1462.

Paris, *c* of France. One of world's leading cultural, educational and social cities. Famous for fashions, food and night life. *p* 1472.

Peking, *c* of China. Cultural, intellectual and industrial city. Famous for architecture and landscapes. *p* 1466.

Pemba, island belonging to Tanzania, E Africa. *a* 380 sq. mi. Copra. *p* 1457.

Penang, Malaysian state consisting of island of Penang and Province Wellesley on mainland. *a* 400 sq. mi. Rubber. *p* 1467.

Pennsylvania, E state, US. *c* Harrisburg; *a* 45,333 sq. mi. Coal, lumber, oats, textiles, tobacco, wheat. Named after William Penn, the founder. *p* 1459.

Persian Gulf, NW arm of Indian Ocean between Iran and Arabia. *a* 90,000 sq. mi. Sometimes called Arabian Gulf. *p* 1464.

Perth, *c* of Western Australia. Market and manufacturing city. *p* 1470.

Peru, mountainous republic in S. America. *c* Lima; *a* 496,223 sq. mi. Half the people are of Amerind descent, the rest are *mestizos* (mixed Amerind and European). Language: Spanish. Location: N of Chile, on Pacific Ocean. Main products are cotton, copper and fish-meal. Land of Inca people, conquered by Spain in early 1500's. Won independence in 1824. *p* 1460.

Philadelphia, port in SE Pennsylvania, US. Petroleum refining, shipbuilding, sugar and textiles. City's name (in Greek) means 'brotherly love'. *p* 1459.

Philippines, republic, group of islands in SW Pacific. *c* Quezon City; *a* 115,507 sq. mi. People are called Filipinos. They are of mixed origin. Main languages: Filipino, English, Spanish. Most people are Christians. Main groups of islands: Luzon, Mindanao and Visayan. Most islands are mountainous and volcanic, having earthquakes. Coconuts, fish, minerals, pineapples. Independent from US since 1946. *p* 1467.

Phnom Penh, *c* of Cambodia. *p* 1467.

Phoenix, *c* of Arizona, US. Hot springs resort. Electronics, metals. *p* 1459.

Pietermaritzburg, *c* of Natal, S. Africa. Industrial city. Named after two Boer leaders. *p* 1457.

Pittsburgh, city in Pennsylvania, US. Coal, gas, steel industries. *p* 1459.

In many parts of South America, like Peru, the people are descended from the ancient Indian tribes.

Poland, republic in central Europe. *c* Warsaw; *a* 120,359 sq. mi. Poles are a Slav people and most are Roman Catholic. Main river is the Vistula. Nearly half the people are farmers. Forestry, manufacturing, mining. Exports include cereals, coal, ham, sausages. Poland regained independence from Austria, Germany, Russia in 1919. *p* 1472.

Popocatepetl, extinct volcanic mt. in Central Mexico, 17,887 ft. *p* 1459.

Port-au-Prince, *c* and chief port of Haiti. Fishing and food industries. *p* 1459.

Port-of-Spain, *c* of Trinidad and Tobago, W. Indies. *p* 1459.

Porto-Novo, *c* of Dahomey, Africa. *p* 1454.

Portugal, republic in SW Europe. *c* Lisbon; *a* 35,510 sq. mi. Most Portuguese are Roman Catholics. Portugal, with Spain, forms the Iberian Peninsula. Chief exports: cork, fish, fruit, pottery, textiles, wine. Portuguese sailors began exploring much of the world about 500 years ago. *p* 1472.

Portuguese Guinea, territory in W Africa. *c* Bissau; *a* 13,948 sq. mi. *p* 1454.

Prague, *c* and largest city of Czechoslovakia. Engineering, glove-making, metalworks, smoked meats. *p* 1472.

Pretoria, *c* of Transvaal, S Africa. Industrial city and trading point Administrative *c* of S. Africa. *p* 1457.

Prince Edward Island, province, SE Canada. *c* Charlottetown; *a* 2,184 sq. mi. Farming and fishing. *p* 1459.

Providence, *c* and port of Rhode Island, US. Machinery, silverware and textiles. *p* 1459.

Puerto Rico, island E of Hispaniola, under protection of US. *c* San Juan; *a* 3,435 sq. mi. Manufacturing industries. *p* 1459.

Pusan, large port in S. Korea. *p* 1466.

Pyongyang, *c* of N. Korea. Metals, sugar refining, textiles. *p* 1466.

Pyrenees, mtns dividing France and Spain. *p* 1472.

Q

Qatar, Arab Sheikdom on Persian Gulf. *c* Doha; *a* 4,000 sq. mi. Petroleum. *p* 1464.

Quebec, *c* of Quebec, Canada. Grain and fur trade, metalworking. *p* 1459.

Quebec, oldest and largest province, E Canada. *c* Quebec; *a* 594,860 sq. mi. Asbestos, cattle, forestry, manufacturing, metals. Largest city is Montreal, in south. *p* 1459.

Queensland, state, NE Australia. *c* Brisbane; *a* 667,000 sq. mi. Crops, livestock, minerals, petroleum. Great Barrier Reef (mainly coral) off coast. *pp* 1470, 1471.

Quezon City, *c* of Philippines. Contains University of the Philippines. *p* 1467.

Quito, *c* of Ecuador, in the Andes. Cultural and industrial city. *p* 1460.

R

Rabat, *c* and port, Morocco, NW Africa. Handicrafts. *p* 1454.

Raleigh, *c* of North Carolina, US. Trading point. *p* 1459.

Rangoon, *c* and port of Burma. *p* 1467.

Recife, port in NE Brazil. Fruit, metal, sugar industries. Rail hub. *p* 1461.

Red Sea, almost divides Arabia and Africa. *a* 170,000 sq. mi. Flows into Indian Ocean. *p* 1464.

Regina, *c* of Saskatchewan, Canada. Foundries, petroleum, sawmills. *p* 1458.

Reykjavik, *c* and chief port of Iceland. Fishing. *p* 1472.

Rhine, river in Europe. Rises in Switzerland and flows 800 mi. to North Sea in Netherlands. *p* 1472.

Rhode Island, smallest state, NE US. *c* Providence; *a* 1,214 sq. mi. Agriculture, fishing, silver, textiles. *p* 1459.

Rhodesia, British colony in S Africa. *c* Salisbury; *a* 150,333 sq. mi. Tobacco and minerals. Declared itself independent of Britain in 1965. *p* 1457.

Richmond, *c* of Virginia, US. Chemicals, metals and tobacco. *p* 1459.

Rio de Janeiro, port in SE Brazil. Largest city and former capital of Brazil. *p* 1461.

Rio de Oro, part of Spanish Sahara. *p* 1454.

Rio Grande, river flowing 1,885 miles through southern US and northern Mexico. *p* 1459.

Riyadh, *c* of Saudi Arabia. Fruit, grain and handicrafts. *p* 1464.

Rocky Mtns, range in western N. America, running through Canada, US, Mexico. *pp* 1458, 1459.

Rome, *c* of Italy. Once capital of the Roman Empire and still one of the world's leading cultural cities. Contains many famous buildings including Colosseum, numerous churches and Renaissance palaces. The Vatican City in the W contains St Peter's Church. *p* 1472.

Rumania, republic in E Europe. *c* Bucharest; *a* 91,699 sq. mi. The country is mountainous, and rich in forests. Minerals include petroleum. Products include cereals, fruit, livestock and minerals. *p* 1472.

Russia, see USSR.

Rwanda, densely populated, landlocked republic in E Africa. *c* Kigaii; *a* 10,169 sq. mi. Coffee, minerals and tea. Gained independence from Belgium in 1962. *p* 1457.

S

Sabah, state of E Malaysia, in Borneo. *c* Jesselton; *a* 29,387 sq. mi. Hardwoods, rubber, tobacco. *p* 1467.

Sacramento, *c* of California, US. Fruit and meat packing, lumber. *p* 1459.

Sahara, N Africa, largest desert in world. *a* about 3 million sq. mi. *p* 1454.

Saigon, *c* of South Vietnam. Chief industrial city. Food processing. *p* 1467.

St John's, *c* and port of Newfoundland, Canada. Fishing, trade. *p* 1459.

St Kitts-Nevis, W. Indian islands. State in association with Britain. *c* Basse-Terre; *a* 103 sq. mi. Cotton, coconuts. *p* 1459.

St Lawrence, Gulf of, arm of Atlantic in SE Canada. *a* 100,000 sq. mi. *p* 1459.

St Lawrence, important N. American river flowing 2,100 mi. from Gt Lakes to Atlantic. Forms part of US-Canada border. *p* 1459.

St Louis, city in Missouri, US. Furs, livestock market. Food processing. *p* 1459.

St Lucia, W. Indian island state in association with Britain. *c* Castries; *a* 238 sq. mi. Agriculture. *p* 1460.

St Vincent, W. Indian island state in association with Britain. *c* Kingstown; *a* 150 sq. mi. Cotton, sugar. *p* 1460.

Salween, river flowing through Tibet, China, Burma, 1,750 miles to Indian Ocean. *p* 1465.

San Antonio, city in S Texas, US. Famous for Alamo (American fort besieged in Mexican War, 1836). *p* 1459.

San Diego, port in California, US. Aircraft, fish canneries. *p* 1459.

San Francisco, port in California, US. Famous for Golden Gate Bridge. *p* 1459.

San José, *c* of Costa Rica. *p* 1460.

San Salvador, *c* of El Salvador, Central America. Cigars, textiles. *p* 1460.

San'a, *c* of Yemen, Arabia. Ancient trading city. *p* 1464.

Santa Fe, *c* of New Mexico, US. Founded by Spanish in 1610. *p* 1459.

Santiago, *c* of Chile. Food, metal and textile industries. *p* 1462.

Santo Domingo, *c* of Dominican Republic, W. Indies. *p* 1459.

São Paulo, port in SE Brazil. Food processing, textiles. *p* 1461.

Sarawak, state of E Malaysia, in Borneo. *c* Kuching; *a* 47,071 sq. mi. Pepper, petroleum, rubber, timber. *p* 1467.

Sardinia, Italian island in Mediterranean. *c* Cagliari; *a* 9,302 sq. mi. Cork, grapes, livestock, metals, olives. *p* 1472.

Sark, see Channel Islands.

Saskatchewan, province, south-central Canada. *c* Regina; *a* 251,700 sq. mi. Farming and farm machinery. *p* 1458.

Saudi Arabia, kingdom in SW Asia. *c* Riyadh; *a* 870,000 sq. mi. Most people are Muslim and speak Arabic. Bedouins can be found in the large areas of desert. Saudi Arabia, covering most of the Arabian Peninsula, is an important producer of petroleum. In the cities of Mecca and Medina, Islam began. *p* 1464.

Scandinavia, general name for Denmark, Norway, Sweden. Sometimes includes Finland and Iceland. See separate entries.

Scotland, mountainous country, north UK. *c* Edinburgh; *a* 30,411 sq. mi. Shipbuilding, whisky. *p* 1472.

Seattle, port in Washington, US. Aircraft, fish canning, lumber. *p* 1458.

Senegal, republic in W Africa. *c* Dakar; *a* about 75,750 sq. mi. On Atlantic between Mauritania and Guinea. Fish, peanuts, phosphates. Gained independence from France in 1960. *p* 1454.

Seoul, *c* of S Korea. Cultural city. Brassware, pottery, silk. *p* 1466.

Shanghai, port and largest city in China. Chemicals, machines, textiles. *p* 1466.

Sheffield, city in England. *p* 1472.

Shenyang, city in NE China. *p* 1466.

Shetland Islands, part of Zetland County, Scotland. *a* 551 sq. mi. *p* 1472.

Shikoku, Japanese islands S of Honshu. *p* 1466.

Siberia, USSR Asian terr. *a* 5 million sq. mi. Developing rapidly. *p* 1469.

Sicily, Italian islands in Mediterranean. *a* 9,926 sq. mi. Contains Mt Etna, 11,122 ft. Farming, fishing. *p* 1472.

Sierra Leone, Commonwealth republic in W Africa. *c* Freetown; *a* 27,699 sq. mi. Bordered by Guinea and Liberia. Products include cassava, diamonds, iron-ore. Gained independence from Britain in 1961. *p* 1454.

Sikkim, independent state between China and India. *c* Gangtok; *a* 2,744 sq. mi. Copper, forestry, rice. *p* 1465.

Singapore, island Commonwealth republic in SE Asia. *c* Singapore City; *a* 224 sq. mi. Majority of people are Chinese. A free port, Singapore is one of the most important trading points in Asia. Independent from Britain since 1963, it left Federation of Malaysia in 1965. *p* 1467.

Socotra, island, part of the Yemen Peoples' Democratic Republic in Indian Ocean. *a* 1,382 sq. mi. *p* 1456.

Sofia, *c* of Bulgaria. Spacious city with interesting churches and mosques. *p* 1472.

Somalia, republic in E Africa. *c* Mogadiscio; *a* 246,202 sq. mi. On Gulf of Aden. Agriculture, livestock and uranium. Gained independence in 1960 from Britain and Italy. *p* 1455.

South Africa, republic in southern Africa. *c* Cape Town (legislative), Pretoria (administrative); *a* 471,466 sq. mi. (including Walvis Bay). S. Africa's many peoples are classified by the Government's segregation policy into 4 groups: Africans, Asians, Coloureds (mixed origins), Europeans. Official languages: Afrikaans, English. Main religions: Dutch Reformed and other Protestant groups, Roman Catholicism.

S. Africa is mainly plateau surrounded by narrow coastal plain. Mts include Drakensberg, bordering the SE coastal plain. Rivers, which include Limpopo, Orange, Vaal, are not navigable. Warm and sunny, S. Africa has large national parks where wild life is preserved. Farming and mining are important, especially gold (half world's production), coal, diamonds, uranium. Manufacturing is developing fast.

European settlements began in 1652. As the settlers moved northwards, they met African peoples migrating southwards. United as a country in 1910, S. Africa left the Commonwealth in 1961. *p* 1467.

South America, see under separate countries.

South Australia, Australian state. *c* Adelaide; *a* 380,070 sq. mi. Agriculture, cotton and wool, electrical equipment, mining, quarrying. *p* 1470.

South Carolina, S state, US. *c* Columbia; *a* 31,055 sq. mi. Cereals, cotton, livestock, lumber, tobacco. Chief port is Charleston. *p* 1459.

South Dakota, N state, US. *c* Pierre; *a* 77,047 sq. mi. Agriculture, gold, lumber, silver. *p* 1459.

South Island, New Zealand. *a* 58,093 sq. mi. Dairy products, sheep. *p* 1471.

South West Africa (Namibia), S. African administered territory. *c* Windhoek; *a* 318,261 sq. mi. Cattle, diamonds, sheep. *p* 1457.

Soviet Union, see USSR.

Spain, monarchy in SW Europe. *c* Madrid; *a* 194,884 sq. mi. (including Balearic Is., Canary Is.). Language: Spanish. Religion: Roman Catholic. Bordered by France, Mediterranean Sea, Gibraltar, Portugal, Atlantic, Bay of Biscay. Meseta plateau covers central Spain. Mts include Cantabrian and Pyrenees ranges in N and Sierra Nevada in S. Rivers include Ebro, Guadalquivir, Tagus. Mild climate becomes more extreme near Madrid. Industry and tourism have developed since disastrous civil war, 1936-39. *p* 1472.

Spanish Sahara, Spanish territory in NW Africa. *a* 102,703 sq. mi. People mainly nomadic. *p* 1454.

Sri Lanka, island Commonwealth republic in Indian Ocean. *c* Colombo; *a* 25,332 sq. mi. It was formerly known as Ceylon. Main religion: Buddhism. Main language: Sinhala. Products include coconuts, graphite, precious stones and rubber. Tea is the chief export. Became independent from Britain in 1948. *p* 1465.

Stewart Island, southernmost of 3 main islands of New Zealand. *a* 670 sq. mi. *p* 1471.

Stockholm, *c* and port of Sweden. Cultural, industrial city. Noted for modern architecture. *p* 1472.

Sucre, official *c* of Bolivia. *p* 1460.

Sudan, largest republic in Africa. *c* Khartoum; *a* 967,501 sq. mi. Most people are Arab Muslims living in N. Christian Negroes live in S. Location: S of Egypt, W of Red Sea. Cotton, gum arabic, hides. Independent since 1956. *p* 1455.

Suez Canal, running 101 miles across N Africa, links Mediterranean and Red Seas. The Canal was blocked during the Arab-Israeli war in 1967. *p* 1455.

Sumatra, island of Indonesia. *a* about 183,000 sq. mi. Coal, coffee, gold, rice, sugar, tin. *p* 1467.

Superior, largest of Gt Lakes, N. America. *a* 31,820 sq. mi. Ports include Duluth, Fort William, Marquette. *p* 1459.

Surabaya, city of E Java. A leading naval base of Indonesia. *p* 1467.

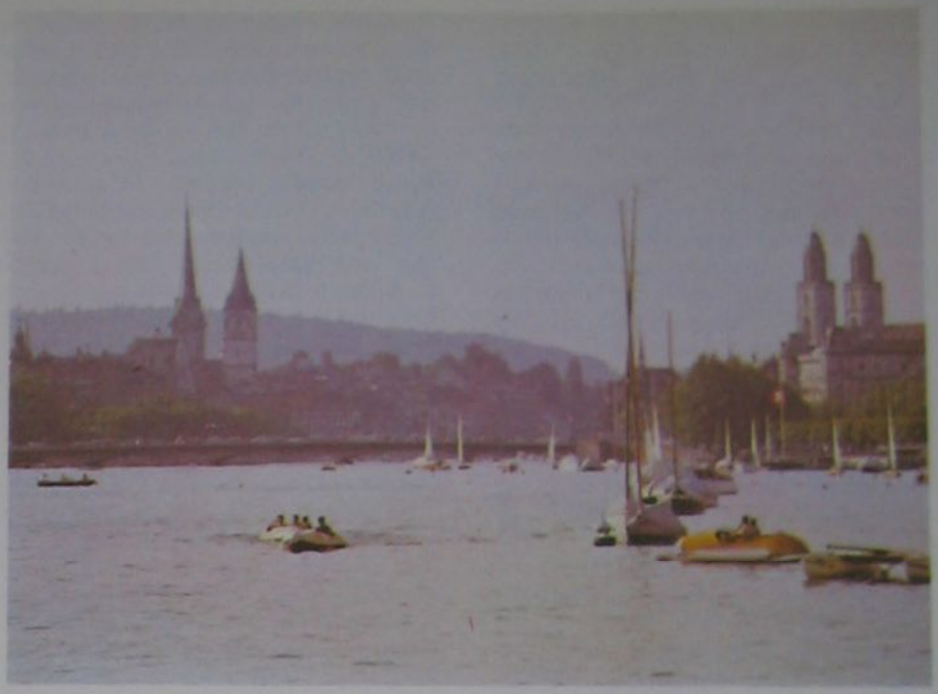
Surinam, Netherlands territory in NE South America. *c* Paramaribo; *a* 53,142 sq. mi. Farming, food processing, bauxite mining. Once called Dutch Guiana. *p* 1461.

Swaziland, independent Commonwealth state in Southern Africa. *c* Mbabane; *a* 6,704 sq. mi. Agriculture, mining. *p* 1457.

Sweden, monarchy in Scandinavia, N Europe. *c* Stockholm; *a* 173,666 sq. mi. Language: Swedish. Bordered by Norway, Finland, Baltic Sea, Kattegat. Mountains cover Sweden's border with Norway. Eastwards, forested land sweeps down to the Gulf of Bothnia. Most people live in the southern plain where the industrial cities and ports lie. Products include aircraft, automobiles, matches, ships, steel. Sweden once ruled much of N Europe. Neutral since 1815. *p* 1472.

Switzerland, European republic in Alps. *c* Bern; *a* 15,941 sq. mi. Swiss people are of mixed descent. Most speak French, German or Italian. Bodies of water include: lakes Geneva, Constance; rivers Inn, Rhine, Rhône, Ticino. Large cities include Zürich, Geneva. Exports include cheese, chocolates, light

Zürich, Switzerland's largest city, lies on the shores of Lake Zürich. The city is a large industrial centre and famous for its banks and insurance companies.



engineering products, watches. Switzerland has been neutral and independent since 1815. Its ski slopes draw many tourists. *p* 1472.

Sydney, *c* and port of New South Wales, Australia. Commercial, cultural and educational city. Sydney Opera House stands on Benelong Point. *p* 1471.

Syr Darya, river in southern USSR, 1,770 mi. long. *p* 1468.

Syria, Arab republic in SW Asia. *c* Damascus; *a* 71,228 sq. mi. Most people are Muslims who speak Arabic. Important rivers include Euphrates, Jordan, Orontes. Main products include cement, cereals, cotton, leather, petroleum, wool. *p* 1464.

T

Taipei, *c* of Nationalist China's island of Taiwan (Formosa). *p* 1466.

Taiwan, island republic near China. Also called Formosa. *c* Taipei; *a* 13,885 sq. mi. Headquarters of Nationalist China since 1949. Taiwan, which includes the Pescadores Islands, has many forests and mountains. Earth tremors are common. The island is rich in minerals. Other products include bamboo, fish, rice, tea and textiles. *p* 1466.

Talyuan, city in E China. *p* 1466.

Tallahassee, *c* of Florida, US. *p* 1459.

Tananarive, *c* of Malagasy Republic, Madagascar. Commercial city. *p* 1457.

Tanzania, republic in E Africa. *c* Dar es Salaam; *a* 362,820 sq. mi. Lakes Victoria, Tanganyika and Nyasa lie on its borders. Mt Kilimanjaro lies in NE. Agriculture is the chief occupation. Exports include diamonds, cloves. Tanganyika became independent in 1962, Zanzibar in 1963. The two countries joined in 1964 to form the unified state of Tanzania. *p* 1457.

Tashkent, city in Uzbekistan, USSR. *p* 1468.

Tasmania, island and smallest Australian state. *c* Hobart; *a* 26,383 sq. mi. Cattle, fruit, grain, minerals. *p* 1471.

Tegucigalpa, *c* of Honduras, Central America. Food processing, minerals. *p* 1460.

Tehran, *c* of Iran. *p* 1464.

Tennessee, S state, US. *c* Nashville; *a* 42,244 sq. mi. Chemicals, food and metal products, textiles. Copper, iron, marble and zinc. *p* 1459.

Texas, S state, US. *c* Austin; *a* 267,339 sq. mi. Beef, chemicals, cotton, fishing, gas, meat packing, petroleum. Famous for Alamo, Texas Rangers. *p* 1459.

Thailand, monarchy in SE Asia. *c* Bangkok; *a* 194,456 sq. mi. The people and their language are called Thai. Most are Buddhist. Thailand is bordered by Burma, Laos, Cambodia, Malaya and the sea. Main products are fish, rice, rubber, sapphires, silk and timber. Once called Siam, Thailand has many beautiful temples. It has never been taken as a colony by Europeans. *p* 1467.

Tibet, autonomous region in SW China. *c* Lhasa; *a* 471,660 sq. mi. *p* 1465.

Tientsin, port in NE China. *p* 1466.

Tigris, river flowing 1,150 miles through Turkey and Iraq. Flows through Baghdad and site of ancient Babylon. *p* 1464.

Timor, E part of island is Portuguese, W part Indonesian. *c* Dili; *a* 7,330 sq. mi. *p* 1467.

Timor, Sea of, between Australia and Timor, *p* 1467.

Tirana, *c* of Albania. Leading commercial and industrial city. *p* 1472.

Tocantins, Brazilian river, 1,700 mi. long. *p* 1461.

Togo, republic in W Africa. *c* Lomé; *a* 21,853 sq. mi. A thin strip of land bordering the Atlantic between Dahomey and Ghana. Products include coffee, cocoa. Gained independence from France in 1960. *p* 1454.

Tokyo, port and *c* of Japan, on Honshu Island. World's most highly populated city. Once called Yedo, or Edo. *p* 1466.

Toronto, port and *c* of Ontario, Canada. Business city for mining industry. Machinery, shipping. *p* 1459.

Transvaal, S. African province. *c* Pretoria; *a* 110,450 sq. mi. Agriculture, brewing, diamonds, wool. *p* 1457.

Trinidad and Tobago, island Commonwealth monarchy in W. Indies. *c* Port-of-Spain; *a* 1,980 sq. mi. Products include asphalt, rum. Independent since 1962. *p* 1459.

Tripoli, port in Lebanon. Petroleum refinery, sponges, textiles. *p* 1464.

Tripoli, *c* and largest city of Libya. Leading port. Products include hides, wool. *p* 1454.

Tsingtao, port in E China. *p* 1466.

Tunis, *c* of Tunisia, N Africa. Ruins of Carthage near. *p* 1454.

Tunisia, republic in N Africa. *c* Tunis; *a* 48,332 sq. mi. People are mainly Arab or Berber Muslims. Bordered by Algeria, Mediterranean, Libya. Income from agriculture, phosphates and tourism. Independence from France, 1956. *p* 1454.

Turin, city in NW Italy. Automobiles, engineering, textiles. *p* 1472.

Turkey, republic between Mediterranean and Black Seas. *c* Ankara; *a* 301,381 sq. mi. Turks are a Muslim people, and most are farmers. The

Dardanelles and Bosporus straits separate the European and Asian parts of Turkey. Main products are cereals, chromium, figs, mohair, nuts, olives, textiles and tobacco. Turkey was the site of the Byzantine and Ottoman empires. *p* 1473.

U

Uganda, republic in central Africa. *c* Kampala; *a* 91,134 sq. mi. People are mainly of Buganda tribe. Bordered by Lake Victoria and five countries. Products include coffee and copper. Gained independence from Britain in 1962. *p* 1456.

Ukraine, republic of USSR. *c* Kiev; *a* 225,000 sq. mi. Leading coal and iron region. Fertile 'black earth' agricultural area. *p* 1468.

United Arab Emirates, W Asia. *a* about 32,300 sq. mi. Seven sheikdoms on Persian Gulf. Includes (W to E) Abu Dhabi, Dubai, Sharjah, Ajman, Umm-Al-Qaywayn, Ras Al-Kayman, Rujairah. *p* 1464.

United Kingdom, island monarchy in W Europe. *c* London; *a* 94,214 sq. mi. The UK consists of England, Northern Ireland, Scotland, Wales. Britain's people now include many immigrants from Europe and Commonwealth. Main religions: Protestantism and Roman Catholicism. Language: English, with Welsh in some parts of Wales.

Apart from the Pennines in N England, most of Britain's low mts are in Scotland. Most people live in or near the great industrial and commercial areas such as Glasgow–Edinburgh, Liverpool–Manchester, Birmingham and London. Main rivers include Clyde, Humber, Mersey, Severn, Thames. Coal, iron and fertile soil allowed Britain to become prosperous and develop huge overseas trade and empire in the 1800's. British engineers pioneered industrialization in all its forms. In the 1900's, Britain decreased its overseas commitments and joined the EEC in 1973. *p* 1472.

United States, federal republic in N. America (except for Hawaii state, in Pacific). *c* Washington D.C.; *a* 3,675,633 sq. mi. Language: English. Main religions: Protestantism, Roman Catholicism.

From the Pacific to Atlantic Oceans, 48 of the 50 states lie between Canada in the N and Mexico and the Gulf of Mexico in the S. Alaska borders NW Canada. Hawaii lies 2,400 mi. W of California's coast. The US developed fast during the 1800's. Settlers pushed the 'frontier' westwards across the five main regions. These are: *E coastal plain* where great ports like New York and Boston lie; *Appalachian Mts;* interior *plain* which stretches W to Rocky Mts; *western highlands* which include Rocky Mts and Sierra Nevada-Cascade range; *Pacific slope* where newer cities like Los Angeles and San Francisco lie. The US shares with Canada the Great Lakes in the midwest. Longest rivers are Missouri (2,714 mi.) and Mississippi (2,350 mi.). Only Russia, China and Canada are larger than the US.

More than 40 million immigrants joined US-born people to develop the US into the world's wealthiest farming and industrial country. Each of the 50 states has limited self-government under president elected for 4-year term. *p* 1459.

Upper Volta, landlocked republic in W Africa. *c* Ougadougou; *a* 105,869 sq. mi. Products include cotton, livestock and rice. Gained independence from France in 1960. *p. 1454.*

Ural Mountains, in USSR. Traditional border between Europe and Asia. *p* 1473.

Uruguay, smallest republic in S. America. *c* Montevideo; *a* 72,172 sq. mi. People are mostly of Spanish descent, 80% live in towns. Language: Spanish. Uruguay is bordered by Brazil, the Atlantic and Argentina (by Rio de la Plata). Chief products are hides, meat and wool. Independence from Spain won in 1830. *p* 1462.

USSR (Union of Soviet Socialist Republics), also called Russia or Soviet Union, is a federation of 15 republics. *c* Moscow; *a* 10,403,000 sq. mi. Stretches from E Europe across Asia to the Pacific. Russia, the world's largest country, is a land of great contrasts in people, places, climate and products. It borders 11 countries and the Pacific and Arctic Oceans. Main language: Russian (there are 80 other languages). Religion: Russian Orthodox, now in decline.

The Urals partly divide European

A modern housing estate in the suburbs of Tokyo, capital of Japan and the largest city in the world. The city is situated on Honshu island, the Japanese mainland.

from Asian Russia. Russia's great waterways include Caspian and Aral Seas, L. Baykal, L. Balkhash, and Don, Lena, Ob, Volga, Yenisey rivers and linking canals. The USSR produces about every kind of crop, mineral, and manufactured item.

Throwing off Mongol rule in 1480, the Russian state of Muscovy expanded in all directions to cover a sixth of the world. Communist since 1917, Russia is second only to the US in production of goods. *pp* 1468, 1469.

Utah, US state in Rocky Mts. *c* Salt Lake City; *a* 84,916 sq. mi. Agriculture and mining. *p* 1459.

V

Vancouver, Canada's main Pacific port, SW British Columbia. *p* 1458.

Vatican City, independent Papal state of Roman Catholic Church, part of Rome, Italy. *a* 108·9 acres. *p* 1472.

Venezuela, republic in S. America. *c* Caracas; *a* 352,143 sq. mi. People are mainly *mestizos* (of mixed European and Amerind descent). Language: Spanish. Bordered by Caribbean Sea, Guyana, Brazil, Colombia. Angel Falls are among the world's highest. Products include coffee, minerals, petroleum. Independence won from Spain in 1821. *p* 1460.

Venice, port in Italy. Historic city with many canals. *p* 1472.

Vermont, NE state, US. *c* Montpelier; *a* 9,609 sq. mi. Farming, livestock, lumber, machinery, textiles. *p* 1459.

Victoria, SE state of Australia. *c* Melbourne; *a* 87,884 sq. mi. Farming, coal, iron, oil, textiles. Two-thirds of Victoria's people live in Melbourne. *pp* 1470, 1471.

Vienna, *c* and largest city of Austria. Historic and manufacturing city on Danube river. *p* 1472.

Vietnam, in SE Asia, has since 1954 been divided into two countries, North and South. North Vietnam (Democratic Republic of Vietnam): *c* Hanoi; *a* 61,294 sq. mi. South Vietnam (Republic of Vietnam): *c* Saigon; *a* 65,948 sq. mi. Religions include Buddhism, Christianity, Confucianism, Taoism and combinations of these. Long coastline on South China Sea. Vietnam came under French rule between about 1858 and 1870. After fierce fighting, the French left Vietnam in 1954 and the country was divided. Internal fighting continued into the 1960's, and war spread into Laos and Cambodia by 1970. Products include apatite, cement, coal, copra, processed food, rice, rubber. *p* 1467.

Virginia, E state, US. *c* Richmond; *a* 40,815 sq. mi. Agriculture, coal, manufacturing. World famous for tobacco. First permanent English settlement in N. America was made at Jamestown in 1607. *p* 1459.

Vladivostock, Pacific port in SE Siberia, USSR. Petroleum refining. *p* 1469.

Volga, Europe's longest river, flowing 2,290 miles entirely through the USSR. *p* 1468.

W

Wales, principality in western UK. *c* Cardiff; *a* 8,017 sq. mi. Languages: English, Welsh. Metalworking, mining. *p* 1472.

Warsaw, *c* of Poland. Commercial and cultural city. Largely destroyed 1939-45, but restored in former style. *p* 1472.

Washington, NW state, US. *c* Olympia; *a* 68,192 sq. mi. Largest apple crop in US. Farming, fishing, mining. Largest city and port, Seattle. *p* 1458.

Washington DC, *c* of US, on Potomac River. Administrative area. Government industries include printing and engraving. *p* 1459.

Wellington, *c* of New Zealand, on North Island. Communications, cultural and industrial city; port. *p* 1471.

West Indies, several groups of islands between Florida and Venezuela. See separate entries. *pp* 1459, 1460.

West Irian, Indonesian administered part of New Guinea, and smaller islands. *c* Sukarnapura; *a* 162,915 sq. mi. Foods and spices, fishing, timber. *p* 1470.

West Virginia, E state, US. *c* Charleston; *a* 24,181 sq. mi. Agriculture, coal, iron, glass, lumber, salt, steel. *p* 1459.

Western Australia, largest Australian state. *c* Perth; *a* 975,920 sq. mi. Large area is desert. Asbestos, cereals, coal, gold, livestock, silver. *p* 1470.

White Sea, inlet of Arctic Ocean, USSR. *p* 1468.

Windward Islands, group in W. Indies. Includes Dominica, Grenada, St Vincent. *a* 821 sq. mi. Agriculture, fishing. *p* 1459.

Winnipeg, city in Manitoba, Canada. Wheat market. Rail hub. *p* 1459.

Wisconsin, midwest state, US. *c* Madison; *a* 56,154 sq. mi. Beer, dairy products, farm machinery, iron, paper. Fishing resort. Largest city, Milwaukee. *p* 1459.

Wollongong, town in New South Wales, Australia. *p* 1471.

Wuhan, city on Han river in central China, formed by integrating Hankow, Hanyang and Wuchang. *p* 1466.

Wyoming, US state in Rocky Mts. *c* Cheyenne; *a* 97,914 sq. mi. Agriculture and mining. Famous for Old Faithful geyser, Yellowstone National Park. *p* 1459.

Y

Yangtze, Asia's longest and most important river, flowing 3,100 mi. through China. *p* 1466.

Yaoundé, *c* of Cameroon, Africa. *p* 1454.

Yellow Sea, part of Pacific Ocean between Korea and N China. *p* 1466.

Yemen Arab Republic, desert republic in SW Arabian Peninsula. *c* San'a; *a* 75,290 sq. mi. It lies along the Red Sea. Its people are Arabs, mostly Muslims. Coffee, cotton, grains and hides. *p* 1464.

Yemen Peoples' Democratic Republic, in SW Asia. *c* Medina-as-Shaab; *a* 112,000 sq. mi. Port of Aden provides much of its income. Formerly South Yemen. Won independence from Britain in 1967.

Yenisey, Asian river flowing 2,360 miles through central Siberia, USSR. *p* 1469.

Yokohama, port, part of Tokyo, Japan. *p* 1466.

Yugoslavia, federal republic in SE Europe. *c* Belgrade; *a* 98,766 sq. mi. People and languages include: Serbo-Croatian, Macedonian, Slovene. A Balkan state, Yugoslavia lies along the Adriatic Sea. Fruit, grain, livestock, metals, petroleum. N part of country won independence from Austria in 1918, and joined with Serbia and Montenegro. *p* 1472.

Yukon, territory in NW Canada. *c* Whitehorse; *a* 207,076 sq. mi. Fishing, forestry, furs, minerals. *p* 1458.

Yukon, river flowing 1,979 miles through Yukon (Canada) and Alaska. *p* 1458.

Z

Zaïre Republic, republic in equatorial Africa. *c* Kinshasa; *a* 905,565 sq. mi. Zaïre has a tiny Atlantic coastline, and is bordered by Lake Tanganyika, Congo, and nine other countries. River Congo (Zaïre) and rain forests dominate much of the country. Katanga highlands are rich in cobalt, diamonds, and copper. Independent from Belgium since 1960, Zaïre was formerly known as Congo (Kinshasa). *pp* 1456, 1457.

Zambia, landlocked republic in E Africa. *c* Lusaka; *a* 288,130 sq. mi. Languages: English, Nvanja. Bordered by Zaïre Republic, Rhodesia and 5 other countries. Zambia is one of the world's largest copper producers. Gained independence from Britain in 1964. *p* 1457.

Zanzibar, island, part of Tanzania. *c* Zanzibar; *a* 1,020 sq. mi. Cloves. *p* 1457.

Zululand, region in eastern S. Africa. *a* 10,373 sq. mi. Incorporated into Natal in 1897. *p* 1457.

ATLAS

1454
ATLANTIC OCEAN
Mediterranean
FRANCE
ITALY
SPAIN
PORTUGAL
Lisbon
Oporto
Madrid
Barcelona
Marseilles
Rome
Naples
Corsica (Fr.)
Sardinia (It.)
Palermo
Sicily
Algiers
Tunis
MALTA
Gibraltar (Br.)
Tangier
Tetuán
Melilla (Sp.)
Oran
Rabat
Casablanca
Fez
Er Rif Mts.
Middle Atlas
Anti-Atlas
Safi
Essaouira (Mogador)
Marrakech
Agadir
Madeira (Port.)
Funchal
Canary Islands (Sp.)
Sta. Cruz de Tenerife
Las Palmas
Tenerife
Gran Canaria
Alegranza
Lanzarote
Fuerteventura
IFNI
C. Juby
C. Bojador
Aiun
SPANISH SAHARA
RIO DE ORO
Villa Cisneros
Tropic of Cancer
MOROCCO
Hamada du Guir
Saharan Atlas
Ouarsenis
Biskra
Laghouat
Ghardaia
Touggourt
Ouargla
Hassi Messaoud
Hassi R'Mel
Bechar
Abadla
Tafilalet Oasis
Great Western Erg
Great Eastern Erg
Oil Pipeline
Gadames
Ghadames
Edjele
Tassili-n-Ajjer
Ahaggar
Tanezrouft
ALGERIA
LIBYA
Soda Mts.
Jofra Oasis
Tripoli
Zuara
Homs
Baryan
Gafsa
Gabes
Gulf of Gabès
Djerba I.
Sfax
Sousse
TUNISIA
Fd Gouraud
Port Etienne
C. Blanc
MAURITANIA
Nouakchott
Sahara
Des
Aïr
NIGER
Timbuktu
Bamba
Lake Faguibine
Lake Haogoundou
Tillabéry
Niamey
Niger
MALI REPUBLIC
St. Louis
Senegal
Linguére
Touba
Dakar
SENEGAL
Kayes
Bathurst
GAMBIA
Gambia
PORT. GUINEA
Bissau
Bolama
Bamako
Boké
GUINEA
Conakry
Kankan
Freetown
SIERRA LEONE
Marampa
Bo
Kenderabu
Nimba
LIBERIA
Monrovia
Buchanan
Grain Coast
IVORY COAST
C. Palmas
Ivory Coast
Bouaké
Ouagadougou
Upper Volta
White Volta
Black Volta
Bobo-Dioulasso
Tamale
GHANA
ASHANTI
Kumasi
Akosombo
Accra
Tema
Takoradi
C. Three Points
Gold Coast
TOGO
DAHOMEY
Gaya
Kandi
Parakou
Kainji Dam Site
Jebba
Abidjan
Lomé
C. St. Paul
Slave Coast
Bight of Benin
Porto Novo
Cotonou
Abeokuta
Ibadan
Lagos
Enugu
Port Harcourt
Bight of Biafra
Gulf of Guinea
Fernando Poo (Eq. Guinea)
Principe (Port.)
EQUATORIAL GUINEA
GABON
CAMEROON
N'Kongsamba
Douala
Yaoundé
Kebbi
Sokoto
Kaura Namoda
Nguru
Maiduguri
Kano
Zaria
Bauchi
Kaduna
Plateau
Jos
Benue
Garoua
Bosso
Lake Chad
Fort Lamy
Chari
Basin
NIGERIA
100 fathoms
Feet
16,000
10,000
5,000
3,000
1,500
1,000
600
300
Sea Level
Land Depression
5°W
0° Meridian of Greenwich
5°E
10°E
15°E
Zenithal Equal-area Projection

1455
Suez Canal
108 miles long including approaches (actual canal 101 miles). Minimum width 196 ft at a depth of 33 ft. The canal is navigable to vessels with a maximum draught of up to 38 ft.
The canal is level throughout and therefore has no locks. In 1962 17,518 vessels used the canal, just over half of which was tanker traffic. The canal has been closed since 1967.
SCALE
1" to 24 miles approx.
This map has been made at the same scale as that of the Panama Canal.
N. AFRICA
Aden to Dakar
Scale 1:19,000,000 approx.
ONE INCH TO 300 MILES
0 Miles 300 450
Towns over 1 million people
" over 100,000 people
Boundaries - international
- provincial etc
Railways
projected
Airports
Sand desert
Salt pan
Roads
tracks
Canal
Marsh
Ice cap
Port Said
Port Fuad
Lake Manzala
El Matariya
Bay of Pelusium
El Qantara
El Ballah
El Firdan
(Swing Br.)
Ismailia
Lake Timsah
Tell el Kebir
Moascar
Sweetwater canal
To Cairo 80 miles
Great Bitter Lake
Little Bitter Lake
Fayid
Gineifa
Suez
El Shatt
Port Taufiq
To Aden 1305 n. mls.
Damietta
To Gibraltar 1853 n. miles
Belgrade
Bucharest
Sevastopol'
U.S.S.R.
Black Sea
Danube
Varna
Sofia
YUGOSLAVIA
BULGARIA
Istanbul
Zonguldak
Sinop
Samsun
Batumi
Erzurum
Ankara
TURKEY
Skopje
Tirane
ALBANIA
Salonica
GREECE
Aegean Sea
Izmir
Afyonkarahisar
Kayseri
Malatya
Adana
Athens
Rhodes
Iraklion
Crete
Nicosia
CYPRUS
Famagusta
Aleppo
Euphrates
SYRIA
LEBANON
Beirut
Damascus
ISRAEL
JORDAN
IRAQ
Amman
Jerusalem
Dead Sea
Gaza
Mediterranean Sea
100 fathoms
Benghazi
Bolda
Tobruk
Alexandria
Rosetta
Damietta
Port Said
Suez Canal
Ismailia
Cairo
Pyramids
Memphis
El Faiyûm
Suez
Aqaba
Eilat
Sinai
Gulf of Suez
Red Sea Hills
Libyan Plateau
El Alamein
Qattara Depression
Siwa
Oil Pipeline
Marsa el Brega
Oil Pipelines
Zeltem
Gialo
Ras Lanuf
Waha
Libyan Desert
Qasr Farafra
EGYPT
Barrage
Asyut
Girga
Thebes
Luxor
Dakhla Oasis
El Khârga
Isna
Aswân
Aswân Dam
1st. Cataract
Kufra Oases
Yanbu
Medina
SAUDI ARABIA
Red Sea
Foul Bay
Jidda
Mecca
2nd. Cataract
Wadi Halfa
Nile
Nubian Desert
Port Sudan
Suakin
3rd. Cataract
4th. Cataract
5th. Cataract
Berber
Atbara
Ed Damer
6th. Cataract
Omdurman
Khartoum
Jebel Aulia Dam
Kassala
Agordat
Tessenei
Asmara
Massawa
Kamaran Is. (S. Yemen)
YEMEN
Sa'na
Mukalla
YEMEN PEOPLE'S DEMOCRATIC REPUBLIC
Aden
As Shaab
C. Guardafui
G. of Aden
Assab
Bab el Mandeb
FR. TERR. AFARS/ISSAS
Djibouti
Zeila
Berbera
Erigavo
Hargeisa
Diredawa
Harar
Awash
Addis Ababa
ETHIOPIA
(ABYSSINIA)
Plateau
Ginir
Ogaden
Haud
Shibeli
Obbia
SOMALI REPUBLIC
Aduwa
Gondar
Lake Tana
Blue Nile
Ethiopian
Fashoda
Malakal
Sobat
Gore
Dilla
East Rift Valley
Mega
Moyale
Mogadiscio
Juba
Equator
SUDAN
Gezira
Wad Medani
El Obeid
Sennar Dam
White Nile
BLUE NILE
KORDOFAN
El Fasher
Marra Mts.
DARFUR
Nyala
Roseires
BAHR EL GHAZAL
Sudd
Jebel (White Nile)
Wau
Jonglei
Juba
Nimule
Lake Rudolf
CENTRAL
REPUBLIC
ZAIRE
Zongo
Mobaye
Oubangui
Bondo
Komba
Isiro
Mungbere
Lake Albert
UGANDA
KENYA
20°E
25°E
30°E
35°E
40°E
5°N
10°N
15°N
20°N
25°N
30°N
35°N
40°N
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E. AFRICA
Cape to Cairo
Scale 1:19,000,000 approx.
ONE INCH TO 300 MILES
0 Miles 300 450
Towns over 1 million people
" over 100,000 people
Boundaries - international
" provincial etc.
Railways
Roads
projected
tracks
Airports
Canal
Marsh
Ice cap
Sand desert
Salt pan
1456
Zenithal Equal-area Projection
ALGERIA
LIBYA
EGYPT
SAʻUDI ARABIA
IRAQ
IRAN (PERSIA)
Sahara Desert
Libyan Desert
Nubian Desert
Kufra Oases
Tibesti
Air
NIGER
CHAD
SUDAN
Bodelé Depression
Lake Chad
Bahr el Ghazal
DARFUR
KORDOFAN
BLUE NILE
NIGERIA
CAMEROON
CENTRAL AFRICAN REPUBLIC
ZAÏRE
UGANDA
KENYA
ETHIOPIA (ABYSSINIA)
Ethiopian Plateau
SOMALI REPUBLIC
Ogaden
YEMEN
YEMEN PEOPLE'S DEMOCRATIC REPUBLIC
Red Sea
100 fathoms
G. of Aden
Gulf of Sidra
Great Eastern Erg
Libyan Plateau
Qattara Depression
Oil Pipelines
Gas Pipeline
Suez Canal
Gulf of Suez
Red Sea Hills
Nile
Blue Nile
White Nile
Atbara
Bahr el Ghazal
Bahr el Ghanal
Sobat
Omo
Congo
Ubangui
Chari
Benue
Niger
Lake Albert
Lake Rudolf
East Rift Valley
Lake Tana
Foul Bay
Tropic of Cancer
Equator
Benghazi
Tobruk
Alexandria
Cairo
Port Said
Ismailia
Suez
Aqaba
Eilat
Gaza
JORDAN
KUWAIT
Kuwait
Gadames
Sirte
Sidra
Ras Lanuf
Jofra Oasis
Soda Mts.
Sebha Oasis
Tassili-n-Ajjer
Siwa
Qasr Farafra
Dakhla Oasis
El Kharga
El Faiyûm
Memphis
Pyramids
Girga
Asyût
Barrage
Luxor
Thebes
Isna
Aswân
Aswân Dam
1st. Cataract
2nd. Cataract
3rd. Cataract
4th. Cataract
5th. Cataract
6th. Cataract
Wadi Halfa
Berber
Atbara
Ed Damer
Port Sudan
Suakin
Jidda
Mecca
Yanbu
Madina
Najran
Sa'da
Sa'wûn
Mukalla
Massawa
Kamaran Is.
Tessenei
Asmara
Kassala
Aduwa
Aden
Aʻshaab
Bab el Mandeb
FR. TERR. AFARS/ISSAS
Djibouti
Zeila
Berbera
Hargeisa
Erigavo
Diredawa
Harar
Awash
Addis Ababa
Gondar
Lake Tana
Blue Nile
Omdurman
White Nile Dam
Khartoum
Gezira
Wad Medani
Sennar Dam
El Obeid
El Fasher
Marra Mts.
Nyala
Roseires
Fashoda
Malekal
Wau
Juba
Nimule
Gore
Ginir
Shibeli
Obbia
Mogadiscio
Kismayu
Mega
Moyale
Nanyuki
Mt. Kenya
Lake Rudolf
L. Kyoga
Kampala
Entebbe
Owen Falls
Jinja
Thomson's Falls
Tororo
Kasese
L. Edward
Mt. Ruwenzori
16,794
Stanley Falls
Kisangani
Mbandaka
Libreville
Fernando Poo (Eq. Guinea)
Bight of Biafra
Principe (Port.)
RIO MUNI
EQUATORIAL GUINEA
Douala
Yaoundé
Bangui
Zongo
Mobaye
Bondo
Komba
Isiro
Mungbere
Mène
Enugu
Benue
Jos
Zaria
Bauchi Plateau
Kano
Nguru
Maiduguri
Lake Chad
Fort Lamy
Chari Basin
Garoua
Bosso
Tibesti
Emi Koussi
11,201
Jofra Oasis
Oil Pipelines

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THE UNITED STATES
Alabama 23; Arizona 44; Arkansas 30; California 48; Colorado 40; Connecticut 6; Delaware 10; Florida 17; Georgia 16; Idaho 42; Illinois 28; Indiana 20; Iowa 27; Kansas 35; Kentucky 21; Louisiana 31; Maine 1; Maryland 11; Massachusetts 4; Michigan 18; Minnesota 26; Mississippi 24; Missouri 29; Montana 38; Nebraska 34; Nevada 47; New Hampshire 2; New Jersey 8; New Mexico 41; New York 7; North Carolina 14; North Dakota 32; Ohio 19; Oklahoma 36; Oregon 46; Pennsylvania 9; Rhode Island 5; South Carolina 15; South Dakota 33; Tennessee 22; Texas 37; Utah 43; Vermont 3; Virginia 13; Washington 45; West Virginia 12; Wisconsin 25; Wyoming 39.
Alaska, became a state on January 3rd, 1959;
Hawaii, became a state on August 21st, 1959.
NORTH AMERICA
Scale 1: 25,340,000 approx.
ONE INCH TO 400 MILES
0 Miles 400 500
Towns over 1 million people
" over 100,000 people
Boundaries - international
- provincial etc
Railways
projected
Airports
Sand desert
Salt pan
Roads
tracks
Canal
Marsh
Ice cap
ONE INCH TO 266 MILES
Zenithal Equidistant Projection
1458
Bering Sea
U.S.S.R.
International Date Line
Strait
Kivak
Bering
St. Lawrence (U.S.)
Nome
Seward Peninsula
Yukon
Alaska Range
Brooks Range
Demarcation Pt.
Point Barrow
Beaufort Sea
ARCTIC OCEAN
Aleutian Range
Anchorage
Fairbanks
Fort Yukon
Akiak
Inuvik
Mackenzie
Seward
Kodiak I.
Gulf of Alaska
100 fathom
Dawson
Mackenzie Mountains
YUKON
Whitehorse
Alaska Highway
Skagway
Juneau
Coppermine
Great Bear Lake
Victoria Island
Banks Island
Melville I.
Queen Elizabeth Islands
Sverdrup Islands
Ellesmere Island
North Magnetic Pole
Devon I.
Prince of Wales I.
Somerset I.
Boothia Penin.
Thule
Baffin Bay
GREENLAND
ICELAND
Davis Strait
Baffin Island
Goethaab
Sondre Strömfjord
Fort Simpson
Yellowknife
Great Slave Lake
Fort Smith
Pine Pt.
Arctic Circle
NORTHWEST TERRITORIES
Foxe Basin
Dubawnt L.
Southampton Island
Frobisher Bay
Hudson Strait
Ungava Peninsula
Limit of pack ice - average max. (spring)
Prince Rupert
Queen Charlotte Is.
Kitimat
Queen Charlotte Sound
BRITISH COLUMBIA
ROCKY MOUNTAINS
Mackenzie Highway
Peace
Uranium City
Beaverlodge
L. Athabasca
Dawson Creek
Prince George
Vancouver I.
New Westminster
Victoria
Vancouver
Seattle
Tacoma
Portland
Columbia R.
Fraser R.
Kamloops
Lillooet
Okanagan L.
Spokane
Athabasca
McMurray
ALBERTA
Edmonton
Prince Albert
Saskatchewan
SASKATCHEWAN
Flin Flon
Lynn Lake
MANITOBA
Churchill
Nelson
Hudson Bay
Fort Chimo
Calgary
Saskatoon
L. Winnipegosis
L. Winnipeg
James Bay
Lac Bienville
Schefferville
LABRADOR
Strait of Belle Isle
NEWFOUNDLAND
Cape Freels
Limit of pack ice - average max. (spring)
Lake Michigan
Green Bay
Milwaukee
Grand Rapids
Flint
Saginaw
Lansing
Detroit
Chicago
Gary
South Bend
Fort Wayne
INDIANA
Indianapolis
Dayton
Cincinnati
Columbus
Toledo
Windsor
Lake Erie
Cleveland
Akron
Canton
Pittsburgh
WEST VIRGINIA
Washington
Baltimore
Philadelphia
New York
Long Island
Atlantic City
Buffalo
Rochester
Syracuse
Utica
Albany
Lake Ontario
Toronto
Hamilton
London
Kingston
Ottawa
Montreal
Quebec
Lake Huron
Lake Simcoe
Georgian Bay
Owen Sound
Parry Sound
Sault Ste. Marie
L. Superior
Thunder Bay
Port Arthur
Fort William
Nipigon
Sioux Lookout
Kenora
Winnipeg
Brandon
Regina
Moose Jaw
Medicine Hat
Lethbridge
Great Falls
Billings
Helena
Butte
Missoula
Spokane
Portland
Seattle
Tacoma
Vancouver
Victoria
Prince George
Dawson Creek
Edmonton
Calgary
Saskatoon
Regina
Winnipeg
Thunder Bay
Sault Ste. Marie
Toronto
Ottawa
Montreal
Quebec
Buffalo
Rochester
Syracuse
Albany
Boston
New York
Philadelphia
Washington
Baltimore
Pittsburgh
Cleveland
Detroit
Chicago
Milwaukee
Minneapolis
Duluth
Fargo
Bismarck
Minot
Williston
Great Falls
Billings
Helena
Butte
Missoula
Spokane
Portland
Seattle
Tacoma
Vancouver
Victoria
180°
170°W
160°W
150°W
140°W
130°W
120°W
110°W
100°W
90°W
80°W
70°W
60°W
50°W
70°N
65°N
60°N
55°N
50°N
45°N
40°N

Panama Canal
One inch to 24 miles approx.
ATLANTIC OCEAN
PACIFIC OCEAN
PANAMA
CANAL ZONE
Gatun Lake
Colon
Panama
Balboa
Gaillard Cut (Culebra)
Maximum elevation 312 feet
Minimum depth 41 feet
Sea Level
Gatun Locks
3 pairs
Length 1000'
Width 110'
Lift 85'
Pedro Miguel Locks
1 pair
Length 1000'
Width 110'
Lift 30½'
Miraflores Locks
2 pairs
Length 1000'
Width 110'
Lift 54'
PANAMA The canal, opened 1914, is 50 miles long including approaches (actual canal 40 miles) Minimum depth 41 ft., minimum width 300 ft. (Gaillard Cut). In 1963 11,017 ships used the canal, of these 1,593 were U.S. registered, 1,441 Norwegian, 1,309 U.K. and 1,095 German; making up 45 percent of the total transits.
UNITED STATES
MEXICO
Gulf of Mexico
Caribbean Sea
ATLANTIC OCEAN
PACIFIC OCEAN
Tropic of Cancer
Tropic of Capricorn
Gulf of California
Lower California
Western Sierra Madre
Eastern Sierra Madre
Southern Sierra Madre
Mexican Plateau
Llano Estacado
Colorado Plateaux
Ozark Plateau
Isthmus of Tehuantepec
Yucatan
Campeche Bay
Straits of Florida
Greater Antilles
Lesser Antilles
Mississippi
Missouri
Rio Grande
Colorado
Yellowstone
Platte
Arkansas
Red
Ohio
Tennessee
Appalachian Mts.
Rocky Mts.
Sierra Nevada
Cascade Range
Great Salt Lake
Lake Superior
Lake Michigan
Lake Huron
Lake Erie
Lake Ontario
Hudson Bay
Gulf of St. Lawrence
Chesapeake Bay
Delaware Bay
Bay of Fundy
Seattle
Portland
San Francisco
Los Angeles
San Diego
Las Vegas
Reno
Salt Lake City
Denver
Cheyenne
Omaha
Minneapolis
St. Paul
Duluth
Thunder Bay
Winnipeg
Chicago
Detroit
Toronto
Montreal
Ottawa
Quebec
Boston
New York
Philadelphia
Baltimore
Washington
Pittsburgh
Cleveland
Buffalo
Milwaukee
Kansas City
St. Louis
Cincinnati
Indianapolis
Louisville
Nashville
Memphis
Atlanta
Birmingham
Charlotte
Norfolk
Richmond
Jacksonville
Miami
Tampa
Savannah
Charleston
New Orleans
Houston
Dallas
Fort Worth
San Antonio
Oklahoma City
Wichita
Albuquerque
El Paso
Phoenix
Tucson
Mexicali
Chihuahua
Monterrey
Corpus Christi
Brownsville
Tampico
Veracruz
Mexico City
Puebla
Guadalajara
León
Mazatlán
Torreón
San Luis Potosí
Zacatecas
Mérida
Havana
Nassau
Key West
Cayman Is. (Br.)
Jamaica
Haiti
Dominican Republic
Santiago de Cuba
Port-au-Prince
Kingston
Camagüey
Belize
Honduras
Guatemala
Tegucigalpa
Nicaragua
Managua
Lake Nicaragua
San Salvador
El Salvador
Costa Rica
San José
Panama
Puerto Limón
Barranquilla
Cartagena
Maracaibo
Caracas
Valencia
Barquisimeto
Port of Spain
Trinidad
Tobago
Barbados
Bermuda (Br.)
Turks Is. (Br.)
Caicos Is. (Br.)
Virgin Is.
Guadeloupe (Fr.)
Martinique (Fr.)
Antigua (Br.)
Puerto Rico (U.S.)
Lake Superior
Lake Michigan
Lake Huron
Lake Erie
Lake Ontario
Hudson Bay
Gulf of St. Lawrence
Chesapeake Bay
Delaware Bay
Bay of Fundy
Seattle
Portland
San Francisco
Los Angeles
San Diego
Las Vegas
Reno
Salt Lake City
Denver
Cheyenne
Omaha
Minneapolis
St. Paul
Duluth
Thunder Bay
Winnipeg
Chicago
Detroit
Toronto
Montreal
Ottawa
Quebec
Boston
New York
Philadelphia
Baltimore
Washington
Pittsburgh
Cleveland
Buffalo
Milwaukee
Kansas City
St. Louis
Cincinnati
Indianapolis
Louisville
Nashville
Memphis
Atlanta
Birmingham
Charlotte
Norfolk
Richmond
Jacksonville
Miami
Tampa
Savannah
Charleston
New Orleans
Houston
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Fort Worth
San Antonio
Oklahoma City
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Albuquerque
El Paso
Phoenix
Tucson
Mexicali
Chihuahua
Monterrey
Corpus Christi
Brownsville
Tampico
Veracruz
Mexico City
Puebla
Guadalajara
León
Mazatlán
Torreón
San Luis Potosí
Zacatecas
Mérida
Havana
Nassau
Key West
Cayman Is. (Br.)
Jamaica
Haiti
Dominican Republic
Santiago de Cuba
Port-au-Prince
Kingston
Camagüey
Belize
Honduras
Guatemala
Tegucigalpa
Nicaragua
Managua
Lake Nicaragua
San Salvador
El Salvador
Costa Rica
San José
Panama
Puerto Limón
Barranquilla
Cartagena
Maracaibo
Caracas
Valencia
Barquisimeto
Port of Spain
Trinidad
Tobago
Barbados
Bermuda (Br.)
Turks Is. (Br.)
Caicos Is. (Br.)
Virgin Is.
Guadeloupe (Fr.)
Martinique (Fr.)
Antigua (Br.)
Puerto Rico (U.S.)
Feet
10,000
5,000
3,000
1,500
1,000
600
300
Sea Level
Land Depressing
100 fathoms
1459
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1460
JAMAICA
HAITI
DOMINICAN REPUBLIC
PUERTO RICO (U.S.A.)
Virgin Is. (Br. & U.S.)
St. Christopher (St. Kitts) (Br.)
Montserrat (Br.)
Guadeloupe (Fr.)
Leeward Islands
Barbuda (Br.)
Antigua (Br.)
Dominica (Br.)
Martinique (Fr.)
St. Lucia (Br.)
St. Vincent (Br.)
Windward Islands
Grenada (Br.)
TOBAGO
TRINIDAD
Port of
Guatemala
HONDURAS
Tegucigalpa
C. Gracias a Dios
EL SAL.
San Salvador
NICARAGUA
Managua
Lake of Nicaragua
COSTA RICA
San José
Puerto Limón
Panama Canal
Portobelo
Colón
PANAMA
Gulf of Darien
Gulf of Panama
Panama
Pt. de Gallinas
Aruba (Neth.)
Curaçao (Neth.)
Gulf of Venezuela
Sta. Marta
Barranquilla
Cartagena
Maracaibo
Pta. Cabello
La Guaira
Caracas
Valencia
Barquisimeto
Barcelona
Cumaná
Maturín
Margarita I.
Port of
Lake of Maracaibo
Magdalena Basin
Turbo
Cúcuta
Cordillera de Mérida
VENEZUELA
Calabozo
Tucupita
Orinoco
Ciudad Bolívar
Cerro Bolívar
San Cristóbal
Arauca
Bucaramanga
Cauca
Magdalena
Medellín
Manizales
Central
Oriental
Tunja
Pto. Ayacucho
Angel Falls
Cocos Is. (C.R.)
Malpelo I. (Col.)
Buenaventura
Ibagué
Bogotá
COLOMBIA
Cordillera Occidental
Cordillera Central
Cordillera Oriental
Cali
Neiva
Orinoco
Boa Vista
Tumaco
San Lorenzo
Florencia
Pasto
Vaupés
Mitú
Casiquiare
Branco
Chatham I. (Indefatigable I.)
Equator
Quito
Cotopaxi 19,344
Chimborazo 20,577
Riobamba
Manta
ECUADOR
S. Cristobal (Chatham I.)
Galápagos Islands (Ecuador)
Isabela (Albemarle I.)
Guayaquil
Gulf of Guayaquil
Negro
Putumayo
Amazon
Iquitos
(Solimoes)
Leticia
Manaus
Morona
Loja
Talara
Marañon
Piura
Sechura Desert
Chiclayo
Cajamarca
Ucayali
Juruá
Purús
Madeira
Selva
BRAZIL
Cruzeiro do Sul
Trujillo
Huallaga
Chimbote
Huaraz
Huánuco
Goyllarisquizga
Cerro de Pasco
Minaragra
La Oroya
Pôrto Velho
Santo Antônio
Rio Branco
Riberalta
Guajará-mirim
Serrado
Callao
Lima
Huancayo
Ayacucho
Machu Picchu
Cusco (Cuzco)
Huancavelica
Abancay
Beni
Pisco
Ica
Llanos de Guarayos
Chiquito
Las Yungas
L. Titicaca
Puno
La Paz
Arequipa
Mollendo
Coroico
Cochabamba
Mizque
Santa Cruz
Oruro
L. Poopó
Plateau
Arica
Sucre
Potosí
Pisagua
Iquique
Uyuni
Tarija
Chuquicamata
Antofagasta
Tropic of Capricorn
Jujuy
Salta
Taltal
Feet
16,000
10,000
6,000
3,000
1,500
1,000
600
300
Sea Level
Land Depression
100 fathoms
85°W
80°W
75°W
70°W
65°W
15°N
10°N
5°N
5°S
10°S
15°S
20°S
Transverse Mercator Projection

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Transverse Mercator Projection
1462
Porto Velho
Santo Antônio
Rio Branco
Riberalta
Guajará-mirim
Huaraz
Huánuco
Cerro de Pasco
Minaragra
La Oroya
Callao
Lima
Huancayo
Ayacucho
Huancavelica
Abancay
Machu Picchu
Cusco (Cuzco)
Ica
Mollendo
Arequipa
Cordillera Occidental
La Paz
L. Titicaca
Puno
Oruro
Cochabamba
Mizque
Santa Cruz
Llanos de Guarayos
Chiquito Plateau
Beni
La Yungas
Cuiabá
Mato Grosso Plateau
Goiás
Brasilia
Goiânia
Anápolis
Corumbá
Sucre
Potosí
L. Poopó
Uyuni
Tarija
Arica
Pisagua
Iquique
Chuquicamata
Atacama Desert
Antofagasta
Tropic of Capricorn
Jujuy
Salta
Paraguay
Asunción
Pilcomayo
Concepción
Ponta Porã
Campo Grande
Ubaraba
Dôres do Indaiá
Belo Horizonte
Ribeirão Prêto
Campinas
São Paulo
Santos
Rio de Janeiro
Niterói
Petrópolis
Juiz de Fóra
Vitória
Volta Redonda
Curitiba
Paraná Plateau
Florianópolis
Tucumán
Taltal
Chañaral
Potrerillos
Caldera
Copiapó
Catamarca
La Rioja
Santiago del Estero
Resistencia
Corrientes
Posadas
Uruguay
Paraná
Dulce
Salado
Uruguaiana
Sta. Maria
São Leopoldo
Pôrto Alegre
Rio Grande do Sul
Rivera
Salto
Pelotas
Rio Grande
La Serena
Coquimbo
Córdoba
Santa Fe
Paraná
Paysandú
Rosario
San Juan
Mendoza
San Luis
Viña del Mar
Valparaíso
Santiago
Rancagua
San Fernando
Los Andes
Aconcagua
Venado Tuerto
Pergamino
Fray Bentos
Buenos Aires
Avellaneda
La Plata
River Plate
Montevideo
San Rafael
Juan Fernández Is.
Curicó
Chillán
Concepción
Coronel
Lebu
Santa Rosa
Tandil
Mar del Plata
Bahía Blanca
Temuco
Zapala
Neuquén
Colorado
Negro
Valdivia
Pampa de la Salinas
Llullaillaco
Pissis
Tres Cruces
Paso de Jama
Paso de San Francisco
Paso de Agua Negra
Paso de Pircas Negras
Paso de Come Caballos
Paso de Sico
Paso de Huemules
Paso de Maipo
Paso de Piuquenes
Paso de Portillo
Paso de Uspallata
Paso de Cristo Redentor
Paso de Pehuenche
Paso de Copahue
Paso de Tromen
Paso de Mamuil Malal
Paso de Huahum
Paso de Puyehue
Paso de Cardenal Samoré
Paso de Vicente Pérez Rosales
Paso de Perez Rosales

S. AMERICA
(South)
Scale 1:19,000,000 approx.
ONE INCH TO 300 MILES
0 Miles 300 450
Towns over 1 million people
over 100,000 people
Boundaries international
provincial etc
Railways
projected
Airports
Sand desert
Salt pan
Roads
tracks
Canal
Marsh
Ice cap
Feet
16,000
10,000
6,000
3,000
1,500
1,000
600
300
Sea Level
Land Depression
PACIFIC OCEAN
ATLANTIC OCEAN
SCOTIA SEA
WEDDELL SEA
Chiloé I.
Chonos Archipelago
Taitao Peninsula
Valdés Peninsula
Rawson
Chubut
Las Plumas
Comodoro Rivadavia
Puerto Deseado
Río Gallegos
Strait of Magellan
Punta Arenas (Magallanes)
Tierra del Fuego
Ushuaia
Ile de los Estados (Staten I.)
Cape Horn
Queen Adelaide Archipelago
Drake Passage
Port Stanley
FALKLAND IS. (Br.)
SOUTH GEORGIA (Br.)
Grytviken
South Sandwich Islands (Br.)
Limit of pack ice—average max (spring)
South Shetland Islands
Elephant I.
Coronation I.
South Orkney Islands
Deception I.
Hope Bay
100 fathoms
Antarctic Pen.
Graham Land
Larsen Ice Shelf
Adelaide I.
Antarctic Circle
Limit of pack ice—average min. (autumn)
Peterl Island (Nor.)
Charcot I.
Alexander I.
Palmer Land
90°W
80°W
70°W
60°W
50°W
40°W
30°W
20°W
45°S
50°S
55°S
60°S
65°S
1463
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ROMANIA
BULGARIA
Black Sea
Istanbul
Ankara
Izmir
TURKEY
Mediterranean Sea
CYPRUS
Nicosia
Famagusta
LEBANON
Beirut
Tripoli
SYRIA
Damascus
Homs
Palmyra
Aleppo
Latakia
Antakya (Antioch)
Adana
Mersin
Tarsus
Iskenderun
Urfa
Nuseybin
Siirt
Diyarbakir
Malatya
Elazig
Erzurum
Sivas
Trabzon
Samsun
Sinop
Zonguldak
Batumi
GEORGIAN S.S.R.
Tbilisi
Caucasus Mountains
Groznyy
Makhachkala
Astrakhan'
Volgograd
Zhdanov
Rostov
Krasnodar
Armavir
Kerch'
Novorossiysk
Simferopol'
Sevastopol'
Constanța
Varna
Plovdiv
Edirne
Bursa
Eskisehir
Afyonkarahisar
Konya
Kayseri
Euphrates
Tigris
Syrian Desert
Mosul
Kirkūk
Irbil
Nineveh
Rasht
Tabriz
Astara
Lake Urmia
Mīāneh
Caspian Sea
Baku
Yerevan
AZERBAYDZHAN S.S.R.
Lake Sevan
Arpaçay
Aras
Kura
Plain of Mughan
Krasnovodsk
Ust'-Urt Plateau
Aral Sea
Kara-Bogaz-Gol
Turan Lowland
Kyzyl-Kum
Kara-Kum
TURKMEN S.S.R.
Ashkhabad
Kopeh Dagh
Mary (Merv)
Bukhara
Samarkand
UZBEK S.S.R.
Bandar-e Shāh
Alborz Mts.
Shāhrūd
Mashhad
Tehrān
Hamadān
Qom
Kermānshāh
Dasht-e Kavīr
Kāshān
Esfahān (Isfahan)
(PERSIA)
Yazd
Kerman
Shirāz
Bīrjand
Herat
AFGHANISTAN
Maimana
Farah
Nehbandān
Hāmūn-i Helmand
Zābol
Sistan
Helmand
Kandahar
Quetta
Zahedān
BALUCHISTAN
PAKISTAN
Makran
Turbat
Gwadar
Karachi
Bandar Abbās
Strait of Hormuz
OMAN
Gulf of Oman
Muscat
Tropic of Cancer
Ras al Hadd
Jakhdhar
Masira
Arabian Sea
Persian Gulf
Dhahran
Manama
BAHRAIN
Hufhuf
Riyadh
Dauha
Umm Said
QATAR
Sharjah
Dubai
Abu Dhabi
UNITED ARAB EMIRATES
Buraimi
MUSCAT AND 'OMAN
Dhufar
Salala
Kuria Muria Is.
Saiwūn
Hadramaut
YEMEN PEOPLE'S DEMOCRATIC REPUBLIC
Mukallā
Rub' al Khali
Najran
Farasan Is.
Dahlak Archipelago
Kamaran I. (S. Yemen)
San'a
Hodeida
YEMEN
Ta'iz
Assab
Aden
Shaab
Bab el Mandeb
Gulf of Aden
Djibouti
FR. TERR. AFARS/ISSAS
Zeila
Abd al Kuri
Hadjibu
Socotra (S. Yemen)
Cape Guardafui
The Brothers
Bender Cassim
Berbera
Erigavo
Hargeisa
Diredawa
Awash
Harar
Addis Ababa
Plateau
ETHIOPIA (ABYSSINIA)
Ogaden
Ginir
Dilla
SOMALI REPUBLIC
100 fathoms
KENYA
Mega
Obbia
Shibeli
Nafud
Hail
Medina
Yanbū'
Jauf
SA'UDI ARABIA
Red Sea
Red Sea Hills
Nubian Desert
Jidda
Mecca
SUDAN
Port Sudan
Suakin
Qunfidha
Kassala
Agordat
Asmara
Massawa
Teszenei
Ed Damer
Atbara
Berber
6th Cataract
Nile
Asyût
Girga
Luxor
Thebes
Isna
Aswān
1st Cataract (Aswān Dam)
Ma'ān
Aqaba
Suez
Sinai
Cairo
El Falyûm
EGYPT
Alexandria
Port Said
Ismailia
Suez Canal
Jaffa-Tel Aviv
Jerusalem
Haifa
ISRAEL
Amman
JORDAN
Rosetta
Damietta
Pyramids
Baghdād
Karbalā
Babylon
Hillah
Kūt
Ramadi
Euphrates
Tigris
Sāmarrā'
Nāsiriyah
Ur
Oil pipeline
Basra
Abādān
Bandar-e Shāhpūr
Shatt al Arab
Ahvāz
Karun
Zagros Mts.
IRAQ
IRAN
Dasht-e Lūt
Kuwait
KUWAIT
Neut. Terr.
Büshehr
Persian Gulf
Hufhuf
Riyadh
Dhahran
Manama
Dauha
Umm Said
Sharjah
Dubai
Abu Dhabi
Buraimi
Muscat
Jakhdhar
Ras al Hadd
Masira
Kuria Muria Is.
Salala
Dhufar
Mukallā
Saiwūn
Hadramaut
Najran
Farasan Is.
Dahlak Archipelago
Kamaran I. (S. Yemen)
San'a
Hodeida
Ta'iz
Assab
Aden
Shaab
Bab el Mandeb
Djibouti
Zeila
Abd al Kuri
Hadjibu
Socotra
Cape Guardafui
The Brothers
Bender Cassim
Berbera
Erigavo
Hargeisa
Diredawa
Awash
Harar
Addis Ababa
Plateau
Ginir
Dilla
Ogaden
Shibeli
Obbia
Mega
Nafud
Hail
Medina
Yanbū'
Jauf
Jaffa-Tel Aviv
Jerusalem
Haifa
Amman
Rosetta
Damietta
Pyramids
Alexandria
Port Said
Ismailia
Suez Canal
Suez
Sinai
Cairo
El Falyûm
Asyût
Girga
Luxor
Thebes
Isna
Aswān
1st Cataract (Aswān Dam)
Ma'ān
Aqaba
Nile
6th Cataract
Berber
Atbara
Ed Damer
Port Sudan
Suakin
Qunfidha
Kassala
Agordat
Asmara
Massawa
Teszenei
Farasan Is.
Dahlak Archipelago
Kamaran I. (S. Yemen)
Najran
San'a
Hodeida
Ta'iz
Assab
Aden
Shaab
Bab el Mandeb
Djibouti
Zeila
Abd al Kuri
Hadjibu
Socotra
Cape Guardafui
The Brothers
Bender Cassim
Berbera
Erigavo
Hargeisa
Diredawa
Awash
Harar
Addis Ababa
Plateau
Ginir
Dilla
Ogaden
Shibeli
Obbia
Mega
Nafud
Hail
Medina
Yanbū'
Jauf
Jaffa-Tel Aviv
Jerusalem
Haifa
Amman
Rosetta
Damietta
Pyramids
Alexandria
Port Said
Ismailia
Suez Canal
Suez
Sinai
Cairo
El Falyûm
Asyût
Girga
Luxor
Thebes
Isna
Aswān
1st Cataract (Aswān Dam)
Ma'ān
Aqaba
Nile
6th Cataract
Berber
Atbara
Ed Damer
Port Sudan
Suakin
Qunfidha
Kassala
Agordat
Asmara
Massawa
Teszenei
Farasan Is.
Dahlak Archipelago
Kamaran I. (S. Yemen)
Najran
San'a
Hodeida
Ta'iz
Assab
Aden
Shaab
Bab el Mandeb
Djibouti
Zeila
Abd al Kuri
Hadjibu
Socotra
Cape Guardafui
The Brothers
Bender Cassim
Berbera
Erigavo
Hargeisa
Diredawa
Awash
Harar
Addis Ababa
Plateau
Ginir
Dilla
Ogaden
Shibeli
Obbia
Mega
UNITED ARAB REPUBLIC
On 1 February, 1958, Egypt and Syria joined together to form a close union known as the United Arab Republic. A subsequent plebiscite confirmed Colonel Nasser of Egypt as President. On 8 March, 1958, Yemen joined the United Arab Republic to form a new, looser grouping, the United Arab States. This grouping has now broken up.
MIDDLE EAST, PAKISTAN and INDIA
Scale 1:19,000,000 approx.
ONE INCH TO 300 MILES
0 Miles 300 450
Towns over 1 million people
over 100,000 people
Boundaries - international
- provincial etc.
Oil pipeline
Railways
projected
Airports
Sand desert
Marsh
Roads
track
Canal
Salt pan
Ice cap
30°E 35°E 40°E 45°E 50°E 55°E 60°E 65°E
40°N 35°N 30°N 25°N 20°N 15°N 10°N 5°N
Conical Orthomorphic Projection

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Southern JAPAN
Scale 1:9,500,000 approx.
ONE INCH TO 150 MILES
0 Miles 150
FAR EAST
ONE INCH TO 300 MILES
HONSHU
SHIKOKU
KYUSHU
CHINA
KOREA
SOUTH KOREA
NORTH KOREA
Tokyo
Osaka
Kyoto
Nagoya
Sendai
Peking
Shanghai
Nanking
Wuhan
Chungking
Seoul
Harbin
Changchun
Shenyang
Tientsin
Tsingtao
Canton
Hong Kong
Taipeh
FORMOSA
Yellow Sea
East China Sea
Sea of Japan
100 fathoms
Tropic of Cancer
Conical Orthomorphic Projection

Rangoon
Moulmein
THAILAND
(Siam)
Bangkok
Tavoy
Andaman Sea
Gulf of Martaban
Mergui Archipelago
Phuket I.
Songkhla (Singora)
Alor Star
George Town
Penang
Taiping
Ipoh
Medan
MALAYA
(WEST)
Kuala Lumpur
Kuala Trengganu
Kuantan
Serenban
Malacca
Strait of Malacca
Johore Bahru
SINGAPORE
Nias
Batu Is.
Padang
Pakanbaru
Bintan
Riau Archipelago
Equator
Singkep
Djambi
Palembang
Bangka
Belitung (Billiton)
Mentawai Is.
Sumatra (Sumatera)
Enggano
Telukbetung
Krakatau
Sunda Strait
Djakarta
Bandung
Semarang
Surakarta
Surabaja
Madura
Jogjakarta
Malang
Java (Djawa)
Christmas I. (Austl.)
Indian Ocean
Java Sea
Gulf of Siam
Chumphon
Isthmus of Kra
Mergui Archipelago
Phnom Penh
KHMER REPUBLIC
(Cambodia)
Angkor
Tonle Lake
Chanthaburi
Kratié
VIET-NAM
Phanrang
Saigon-Cholon
COCHIN CHINA
Vientiane
Vinh
Hatinh
Samah
Hainan
Paracel Is. (China)
17th Parallel
Savannakhet
Huế
Tourane (Da Nang)
Nakhon Ratchasima
Ubon
Udon Thani
Ayutthaya
Phanom Dongrak
Mekong
South China Sea
Anambas Is. (Indon.)
Bunguran Is. (Indon.)
(Natuna)
100 fathoms
Kota Kinabalu
Kudat
Mt. Kinabalu 13,455
Sandakan
Labuan
Weston
SABAH
BRUNEI
Brunei
Seria
SARAWAK
Tarakan
Sibu
Kuching
Serian
Simanggang
Müller Mts.
Pontianak
Borneo
(Kalimantan)
Samarinda
Balikpapan
Bandjarmasin
Belitung (Billiton)
Laut
Strait of Makassar
Celebes Sea
Sulu Sea
Palawan
Calamian Group
Mindoro
Aparri
San Fernando
Luzon
Quezon City
Manila
Bataan Peninsula
Legaspi
THE PHILIPPINES
Panay
Iloilo
Bacolod
Cebu
Leyte
Negros
Bohol
Samar
Zamboanga
Mindanao
Davao
Basilan
Jolo
Tawitawi
Talaud Is.
Manado
Morotai
Halmahera
Ternate
Moluccas (Maluku)
Celebes (Sulawesi)
Gulf of Tomini
Gulf of Tolo
Gulf of Bone
Molucca Sea
Obi Is.
Sula Is.
Buru
Ambon
Banda Sea
Seram Sea
Seram
Kai Is.
Aru Is.
Tanimbar Is.
Baber Is.
Wetar
Flores Sea
Bali Sea
Lombok
Flores
Sumbawa
Sumba
Waingapu
Sawu Sea
Roti
Timor
Timor Sea
Arafura Sea
100 fathoms
Singaradja
Denpasar
Maumere
Dili
Kupang (Fort.)
Melville I.
Bathurst I.
AUSTRALIA
WEST IRIAN
Yapen Is.
Japen
Biak
Manokwari
Vogelkop Peninsula
Misool
Ceram Sea
Ceram
Amboina
Ambon
Laut Kecil Is.
Tanimbar Is.
Caroline Islands (U.S. Trust.)
Palau Is.
Feet
16,000
10,000
6,000
3,000
1,500
1,000
600
300
Sea Level
Land Depression
15°N
10°N
5°N
5°S
10°S
110°E
115°E
120°E
125°E
1467
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U.S.S.R.
Scale 1:15,340,000 approx.
ONE INCH TO 400 MILES
0 Miles 400 800
ATLANTIC OCEAN
Greenland
Iceland
Norwegian Sea
North Sea
Barents Sea
Kara Sea
Baltic Sea
Gulf of Bothnia
Gulf of Finland
Mediterranean Sea
Black Sea
Sea of Azov
Caspian Sea
Aral Sea
Lake Balkhash
Lake Issyk-Kul
Lake Urmia
Persian Gulf
Red Sea
Gulf of Suez
Suez Canal
Persian Gulf
Gulf of Oman
Arabian Sea
Bay of Biscay
English Channel
Irish Sea
North Sea
Rhône
Rhine
Danube
Volga
Ural
Ob
Yenisey
Lena
Amur
Indus
Tigris
Euphrates
Nile
Jordan
Syr Darya
Amu Darya
Chu
Ili
Irtysh
Ishim
Tobol
Kama
Oka
Don
Dnieper
Dniester
Vistula
Oder
Elbe
Weser
Ems
Rhine
Meuse
Seine
Loire
Garonne
Rhône
Po
Tiber
Arno
Ebro
Tagus
Guadiana
Guadalquivir
Douro
Minho
Shannon
Liffey
Clyde
Forth
Tay
Thames
Severn
Mersey
Humber
Wash
Solway Firth
Firth of Forth
Firth of Clyde
Loch Ness
Loch Lomond
Loch Awe
Loch Tay
Loch Rannoch
Loch Katrine
Loch Leven
Loch Lomond
Loch Awe
Loch Tay
Loch Rannoch
Loch Katrine
Loch Leven
Loch Ness

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1470
AUSTRALIA
Scale 1:19,000,000 approx.
ONE INCH TO 300 MILES
0 Miles 300 450
Zenithal Equidistant Projection
INDONESIA
Celebes (Sulawesi)
Molucca Sea
Banda Sea
Flores Sea
Timor Sea
Arafura Sea
Timor
Darwin
Arnhem Land
Gulf of Carpentaria
Cape York Peninsula
NORTHERN TERRITORY
QUEENSLAND
WESTERN AUSTRALIA
SOUTH AUSTRALIA
Great Sandy Desert
Gibson Desert
Great Victoria Desert
Simpson Desert
Nullarbor Plain
Great Australian Bight
Macdonnell Ranges
Alice Springs
Tennant Creek
Barkly Tableland
Mount Isa
Cloncurry
Longreach
Winton
Quilpie
Broken Hill
Darling
Murray
Adelaide
Port Lincoln
Spencer Gulf
Kangaroo I.
Melbourne
Mt. Gambier
Warrnambool
Ballarat
Bendigo
Mildura
Swan Hill
Riverina
VICTORIA
TASMANIA
Perth
Fremantle
Geraldton
Kalgoorlie
Coolgardie
Esperance
Albany
Bunbury
Northam
Southern Cross
Norseman
Eucla
Ceduna
Port Augusta
Whyalla
Port Pirie
Broome
Derby
Wyndham
Port Hedland
Marble Bar
Mt Goldsworthy
Dampier Land
80 Mile Beach
Yampi Sound
Exmouth Gulf
Dirk Hartog I.
Carnarvon
Geraldton
Mt. Magnet
Meekatharra
Wiluna
Laverton
Leonora
Murchison
Ashburton
Fortescue
Hamersley Ra.
Lake Disappointment
Lake Eyre
Lake Frome
L. Torrens
L. Gairdner
L. Mackay
Cooper Creek
Flinders R.
Stuart Highway
Barkly Highway
Dajarra
Camooweal
Burketown
Normanton
Croydon
Forsayth
Cooktown
Mitchell R.
Gilbert
Wellesley Is.
Gulf of Papua
Torres Str.
Thursday I.
C. York
Daly Waters
Birdum
Katherine
Rum Jungle
Victoria
Joseph Bonaparte Gulf
C. Talbot
Melville I.
Bathurst I.
Kupang
Roti
Sawu
Sumba
Sumbawa
Flores
Lombok
Bali
Kangean Is.
Laut
Butung
Muna
Buton
Kabaena
Buru
Ambon
Obi Is.
Sula Is.
Gulf of Tomini
Gulf of Tolo
Str. of Makassar
Borneo
Misoöl
Vogelkop Peninsula
Japen
Biak
Manokwari
Sarmi
Hollandia
Aitape
Wewak
Madang
Lae
Port Moresby
Fly
Kolepon I.
C. Valsch
Merauke
Tanimbar Is.
Kai Is.
Aru Is.
Irian
New Guinea
Papua
Territory
100 fathoms
Monte Bello Is.
Barrow
Yaraka
Quilpie
Cunnamulla
Coondatta
Longreach
Dajarra
Mt Eba
Leigh Creek
Woomera
Dolder
Forrest
Zanthus
Coolgardie
Kalgoorlie
Northam
Southern Cross
Norseman
Eucla
Esperance
Recherche Arch.
C. Naturaliste
C. Leeuwin
Bunbury
Albany
Freemantle
Perth
Port Lincoln
C. Catastrophe
Kangaroo I.
Spencer Gulf
Adelaide
Murray Bridge
Whyalla
Port Pirie
Port Augusta
Ceduna
Eucla
Broken Hill
Mildura
Swan Hill
Riverina
Bendigo
Ballarat
Geelong
Melbourne
Warrnambool
Mt. Gambier
King I.
Flinders I.
Cape Barren I.
Furneaux Group
Tasman I.
Bass Str.
Hobart
Launceston
Devonport
Zeehan
Strahan
Queenstown
Macquarie Harbour
Port Davey
Maatsuyker I.
Tasman Peninsula
Port Arthur
Bruny I.
Recherche Arch.
Esperance
Albany
Bunbury
C. Naturaliste
C. Leeuwin
Northam
Perth
Freemantle
Geraldton
Carnarvon
Dirk Hartog I.
Exmouth Gulf
Monte Bello Is.
Barrow I.
Port Hedland
Marble Bar
Mt Goldsworthy
Broome
Derby
Wyndham
Yampi Sound
C. Leveque
Dampier Land
80 Mile Beach
Fitzroy
Halls Creek
Tennant Creek
Alice Springs
Macdonnell Ranges
Simpson Desert
Great Sandy Desert
Gibson Desert
Great Victoria Desert
Nullarbor Plain
Great Australian Bight
Lake Disappointment
Lake Eyre
L. Mackay
L. Gairdner
L. Torrens
L. Frome
Cooper Creek
Flinders R.
Stuart Highway
Barkly Highway
Dajarra
Camooweal
Mount Isa
Cloncurry
Hughenden
Winton
Longreach
Barcoo
Yaraka
Quilpie
Cunnamulla
Coondatta
Broken Hill
Darling
Murray
Adelaide
Port Lincoln
Spencer Gulf
Kangaroo I.
Melbourne
Mt. Gambier
Warrnambool
Ballarat
Bendigo
Mildura
Swan Hill
Riverina
VICTORIA
TASMANIA
Perth
Fremantle
Geraldton
Kalgoorlie
Coolgardie
Esperance
Albany
Bunbury
Northam
Southern Cross
Norseman
Eucla
Ceduna
Port Augusta
Whyalla
Port Pirie
Broome
Derby
Wyndham
Port Hedland
Marble Bar
Mt Goldsworthy
Dampier Land
80 Mile Beach
Yampi Sound
Exmouth Gulf
Dirk Hartog I.
Carnarvon
Geraldton
Mt. Magnet
Meekatharra
Wiluna
Laverton
Leonora
Murchison
Ashburton
Fortescue
Hamersley Ra.
Lake Disappointment
Lake Eyre
Lake Frome
L. Torrens
L. Gairdner
L. Mackay
Cooper Creek
Flinders R.
Stuart Highway
Barkly Highway
Dajarra
Camooweal
Mount Isa
Cloncurry
Hughenden
Winton
Longreach
Barcoo
Yaraka
Quilpie
Cunnamulla
Coondatta
Broken Hill
Darling
Murray
Adelaide
Port Lincoln
Spencer Gulf
Kangaroo I.
Melbourne
Mt. Gambier
Warrnambool
Ballarat
Bendigo
Mildura
Swan Hill
Riverina
VICTORIA
TASMANIA
115°E
120°E
125°E
130°E
135°E
140°E
10°S
15°S
20°S
25°S
30°S
35°S

NEW ZEALAND
Scale 1: 7,600,000 approx.
ONE INCH TO 120 MILES
0 Miles 120 180
Towns over 1 million people
" over 100,000 people
Boundaries - international
- provincial etc.,
Railways
Roads
projected
track
Sand desert
Seasonal lakes
Airports
Salt pan
NORTH ISLAND
SOUTH ISLAND
Tasman Sea
Coral Sea
SOUTH PACIFIC OCEAN
Canterbury Bight
Cook Strait
Foveaux Strait
Great Barrier I.
Three Kings Is.
C. Maria van Diemen
North Cape
Hokianga Harbour
Kaipara Harbour
Hauraki Gulf
Auckland
Hamilton
Bay of Plenty
Rotorua
Volcanic Plateau
Lake Taupo
Gisborne
New Plymouth
Hawke Bay
Napier
Hastings
Wanganui
Palmerston North
Wellington
C. Palliser
C. Farewell
Golden Bay
Nelson
Westport
C. Foulwind
Greymouth
Hokitika
Otira Tunnel
Arthur's Pass
Christchurch
Lyttelton
Banks Peninsula
Pegasus Bay
Timaru
Ashburton
Oamaru
Mt. Cook
Mt. Aspiring
Mt. Tasman
Mt. Arrowsmith
Southern Alps
Milford Sound
L. Wanaka
Queenstown
L. Wakatipu
L. Te Anau
Doubtful Sound
Dusky Sound
Alexandra
Kingston
Roxburgh
Lumsden
Gore
Invercargill
Port Chalmers
Otago Peninsula
Dunedin
Balclutha
Kaitangata
Stewart Island
Southwest Cape
C. Providence
Three Kings Is.
Kaitaia
Whangarei
Dargaville
Russell
Whangaroa
Helensville
Devonport
Papakura
Thames
Pukekohe
Paeroa
Huntly
Waikato
Tauranga
Cambridge
Te Awamutu
Kawerau
Whakatane
Opotiki
East Cape
Te Kuiti
Murupara
Wairakei
Taupo
L. Waikaremoana
Waitara
Taumarunui
Waiouru
Mt. Egmont
Stratford
Opunake
Hawera
Ohakune
Taihape
Mahia Penin.
Poverty Bay
Marton
Feilding
Dannevirke
Woodville
Waipawa
C. Turnagain
Masterton
Hutt
Takaka
Tasman Bay
The Sounds
Motueka
Picton
Blenheim
Mt. Owen
Buller
Reefton
Lewis P.
Kaikoura
Waiau
Hanmer
Amuri
Rangitata
Rakaia
Ashburton
Rangitikei
Wanganui
Waipawa
Waipara
Marton
Feilding
Dannevirka
Woodville
Takapau
Tararua Mts.
Rimutaka Tunnel
Hutt
Wellington
C. Palliser
Kaikoura
Waiau
Hanmer
Amuri
Rangitata
Rakaia
Ashburton
Timaru
Oamaru
Dunedin
Port Chalmers
Otago Peninsula
Balclutha
Kaitangata
Invercargill
Stewart Island
Southwest Cape
C. Providence
Foveaux Strait
Doubtful Sound
Dusky Sound
Milford Sound
L. Wanaka
Queenstown
L. Wakatipu
L. Te Anau
L. Manapouri
Alexandra
Kingston
Roxburgh
Lumsden
Gore
Otira Tunnel
Arthur's Pass
Lewis P.

EUROPE

Scale 1:10,000,000 approx.

ONE INCH TO 300 MILES

0 Miles 300 450

Towns over 1 million people
" over 100,000 people
Boundaries - international
- provincial etc.
Railways
projected
Airports
Sand desert
Marsh
Roads
track
Canal
Salt pan
Ice cap

***Coal Production:** *in million metric tons, 1958-60 average*

World	1,902	
U.S.S.R. (total)	331	*Asian coalfields outside area of this map produce balance of 83 million tons.*
" (map)	248	
U.K.	208	
West Germany	145	
Poland	99	
France	57	
Czech.	25	
Belgium	24	

Crude Oil Production: *in million metric tons, 1961*

World	1,118·9
U.S.S.R.	166·0
Kuwait	81·5
Sau. Arab.	69·0
Iran	60·0
Iraq	47·9
Romania	11·6

Steel Production: (castings & ingots.) *in million metric tons 1958-60 av.*

World	307
U.S.S.R.	60·0
West Germany	29·9
U.K.	21·7
France	15·6
Italy	7·0
Belgium	6·5
Czech.	6·1

* *Bituminous and Anthracite*

Conical Orthomorphic Projection

Barents Sea
Murmansk
Kola Peninsula
White Sea
Arkhangel'sk
Lake Onega
Lake Ladoga
Petrozavodsk
Kotlas
Sukhona
North Dvina
Pechenga
Vologda
Rybinsk Reservoir
Rybinsk
Yaroslavl
Kalinin
Ivanovo
Volga
Gor'kiy
Kirov
Perm
Sverdlovsk
Nizhniy-Tagil
Chelyabinsk
Izhevsk
Zlatoust
Ufa
Kazan'
Kama
Belaya
Magnitogorsk
Vladimir
Moscow
Kolomna
Ryazan'
Tula
Novomoskovsk
Kaluga
Smolensk
Penza
Kuybyshev
Orenburg
Orsk
Tambov
Saratov
Ural'sk
Aktyubinsk
Baykonyr
Bryansk
Oryol
Kursk
Voronezh
Kharkov
Volgograd
Don
Lugansk
Dnepropetrovsk
Krivoy Rog
Donetsk
Zhdanov
Rostov
Zaporozh'ye
Nikopol'
Dessa
Sea of Azov
Kerch
Krasnodar
Armavir
Novorossiysk
Sevastopol
Black Sea
100 fathoms
Caucasus Mountains
Mt. El'brus
GEORGIAN S.S.R.
Groznyy
Makhachkala
Astrakhan'
Mangyshlak Peninsula
Ust'-Urt Plateau
Shevchenko
Gur'yev
Caspian Sea
Surface height 92 ft. below M.S.L.
Krasnovodsk
Turan
Aral Sea
Syr Darya
Kyzyl-Kum
Tashkent
Fergana
Frunze
Kazakh S.S.R.
Kirgiz S.S.R.
Tadzhik S.S.R.
Uzbek S.S.R.
Samarkand
Dyushambe
Muyun-Kum
Arys'
Kzyl-Orda
Lake Balkhash
Issyk-Kul
Chu
Baku
Tbilisi
Kura
AZERBAYDZHAN S.S.R.
ARMENIAN S.S.R.
Yerevan
Araks
Batumi
Sinop
Samsun
Trabzon
Zonguldak
Pontic Mountains
Erzurum
Mt. Ararat
Ankara
TURKEY
Sivas
Kayseri
Lake Tuz
Lake Van
Tabriz
L. Rezā'iyeh (L. Urmia)
Astara
Rasht
Alborz Mts.
Tehrān
Dasht-e Kavir
Bandar-e Shah
Shāhrūd
Diyarbakir
Malatya
Konya
Taurus Mts.
Cilician Gates
Adana
Urfa
Nusaybin
Nineveh
Mosul
Kirkuk
Hamadān
Qom
Kāshān
Esfahān (Isfahan)
Yazd
Zagros Mountains
Antakya
Aleppo
Euphrates
Nicosia
Famagusta
Cyprus
Latakia
Homs
Palmyra
Syrian Desert
SYRIA
IRAQ
Baghdād
Karbalā'
Babylon
Mesopotamia
Abādān
Shirāz
Beirut
LEBANON
Damascus
Haifa
ISRAEL
Jaffa-Tel Aviv
Amman
Jerusalem
JORDAN
Dead Sea
Port Said
Suez Canal
Damietta
Ismailia
Cairo
Suez
Sinai
Fayyūm
Ma'an
Aqaba
Nafud
SA'UDI ARABIA
Neutral Terr.
Kuwait
KUWAIT
Persian Gulf
Bushehr
Basra
Ur
Ahvāz
Yazd
Kāshān
(PERSIA)
Esfahān (Isfahan)
Qom
Hamadān
Zagros Mts.
Tyre
Caesarea Philippi
Kedesh
Hazor
Bethsaida
Capernaum
Gennesaret
Cana
Sea of GALILEE
Tiberias
Nazareth
Mt. Tabor
Nain
Megiddo
Mt. Gilboa
Jezreel
Dothan
Jabesh-gilead
Caesarea
Acre
Haifa
Mount Carmel
Great Plain
PHOENICIA
Samaria
Mt. Gerizim
Shechem
SAMARIA
EPHRAIM
R. Jordan
Plain of Sharon
JAFFA-TEL AVIV
Joppa
Arimathaea
32°N
Lydda
Ephraim
Bethel
Jericho
Gilgal
Gezer
Emmaus
Gibeon
Gibeath
JERUSALEM
Bethany
Qumran
Azotus
Bethlehem
Ashkelon
Gath
JUDAEA
JUDAH
Hebron
En-gedi
1285'
Gaza
PHILISTIA
IDUMAEA
Beersheba
The Negeb
EDOM
DEAD SEA
35°E
Holy Land
Scale 1:2,534,000
ONE INCH TO 40 MILES
0 Miles 20
Old Testament names thus, Gath
New Testament names thus, Cana
Feet
16,000
10,000
6,000
3,000
1,500
1,000
600
300
Sea Level
Land Depression
1473
ICELAND
NORWAY
SWEDEN
FINLAND
UNION OF SOVIET SOCIALIST REPUBLICS
GREAT BRITAIN
IRELAND
DENMARK
NETH.
GERMANY
POLAND
FRANCE
SPAIN
PORTUGAL
ITALY
AUSTRIA
HUNGARY
ROMANIA
BULGARIA
GREECE
TURKEY
SYRIA
IRAQ
MOROCCO
ALGERIA
TUNISIA
LIBYA
U.A.R.
SAUDI ARABIA
50°N
45°N
40°N
35°N
30°N
25°N
20°E
25°E
30°E
35°E
40°E
45°E
50°E
55°E
60°E
65°E
70°E
75°E
80°E
85°E
90°E
95°E
100°E
105°E
110°E
115°E
120°E
125°E
130°E
135°E
140°E
145°E
150°E
155°E
160°E
165°E
170°E
175°E
180°E
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